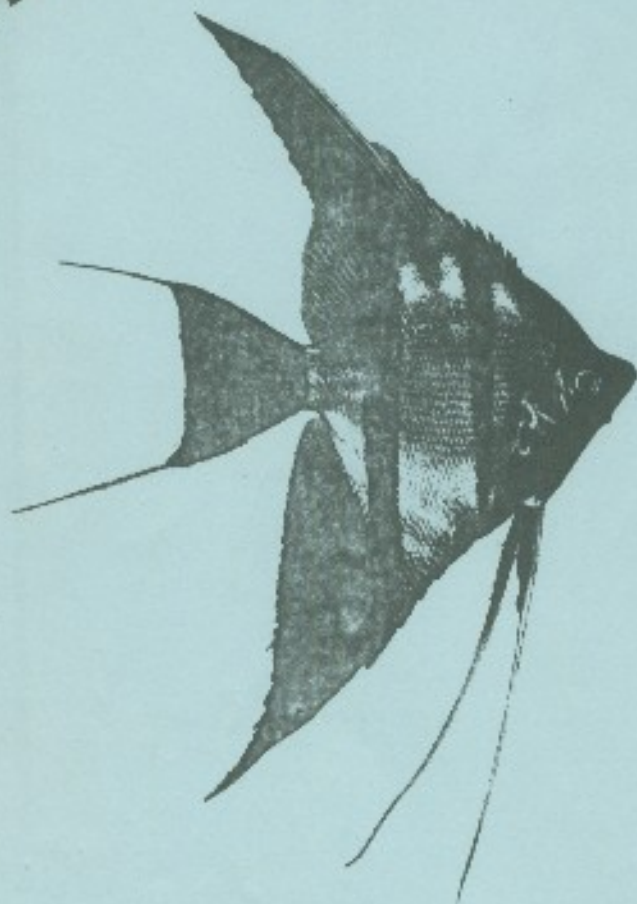


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founded 1938

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Runwell
Wickford
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ASSISTANT EDITOR

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8, Blenheim Chase
Leigh-On-Sea
Essex
Telephone Southend 74542

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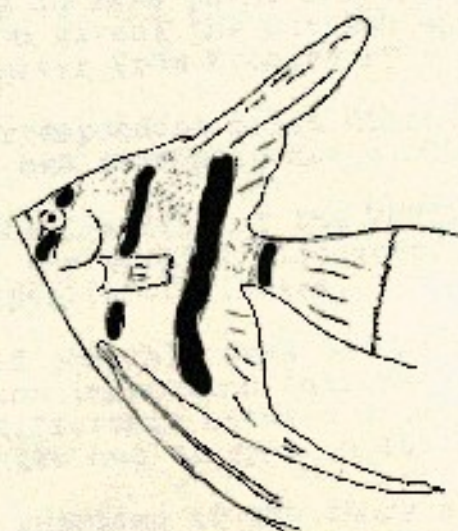
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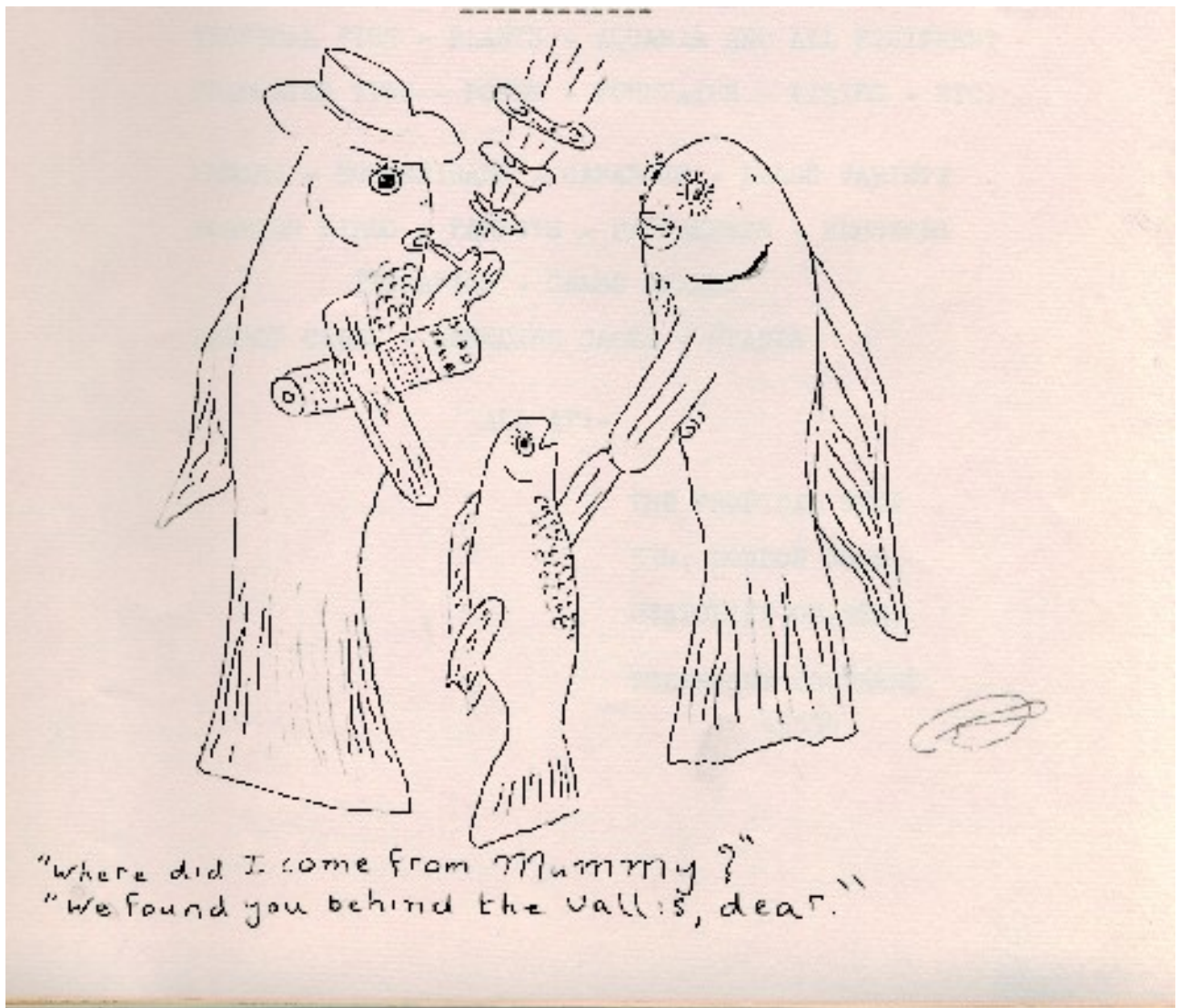


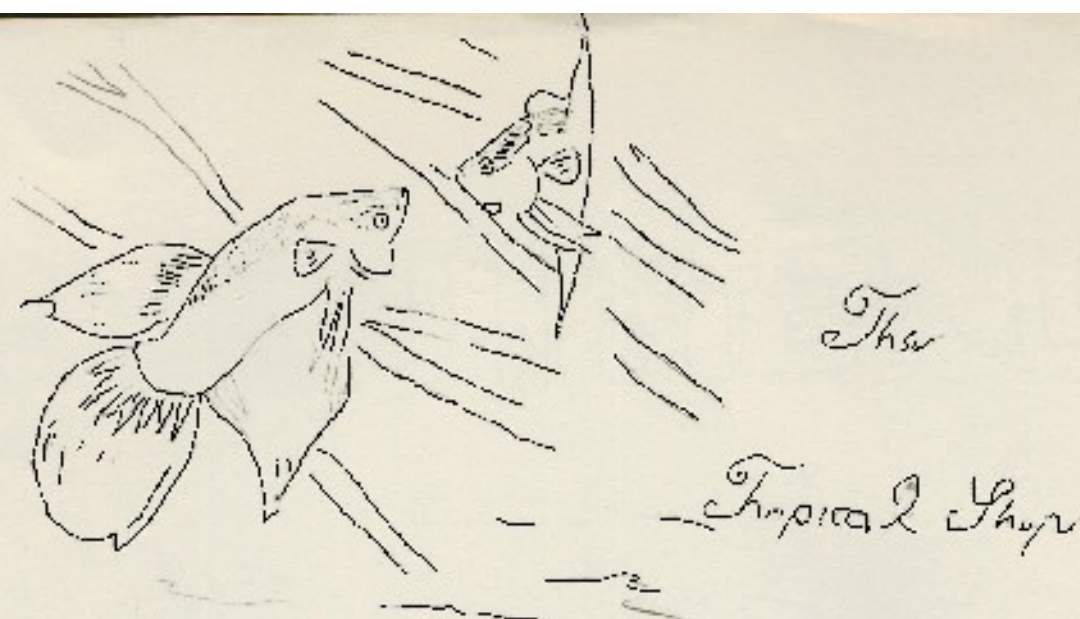
EDITORIAL

I find it gratifying to be able to inform you that this JOURNAL has been announced a winner in the ICHTHYOPHILE EEZE FIN competition. for an article in a recent JOURNAL which gave Phil Marraccini the idea for one of his enchanting stories on a fish theme

The ICHTHOPKILE is produced by Philip Maraccini who is one of the foremost Florida fish farmers. How he finds time to produce this unique magazine, write fascinating stories and articles and execute such noteworthy illustrations, and run his business beats me. In addition I now hear that Phil is the editor of a club magazine from Florida, the mag' is called **Tropical Nugget**, if it's possible we hope to get this on our exchange list as if the ICHTHYOPHILE is anything to go by it must be good.

Thanks for the award Phil I It's great to know that our clubs efforts are appreciated.





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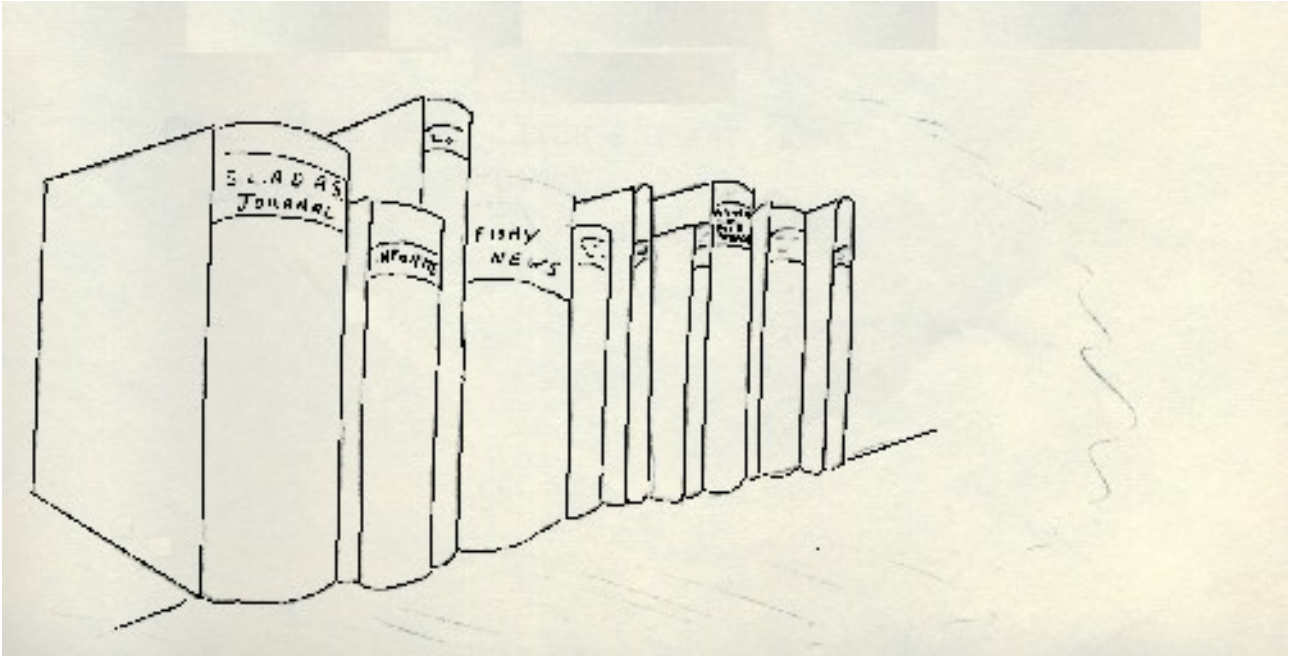
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EXCHANGE REVIEWS

by Jackie Norris.



My apologies for my tardiness in submitting the reviews ,I have been rather busy in other fields of late, but – better late than never - here we go !

That little gem of a bulletin **Aqua Jewels**. (July '68) has an informative article on *Aphyosemion calliurum* by Joe Anascavage, the new feature editor for the A/S of Broward County Florida. Joe found that incubating the *calliurum* eggs in water was a bit of a dead loss with almost. 100.% fungused. eggs as his reward, but by using a medium of damp peat he realised 95% success. He warns that the eggs will not hatch in the peat but must be placed in water after the fourteen days incubation period.

For the absolute beginner there is a good article, in the same magazine, by Sandra Mantergeruers on the essential equipment required and how to go about setting up your tank.

The similarities and differences between white spot and velvet are discussed by Dr Zdenek Lucky in the September issue of PetFish Monthly, w'ith Dr Lucky's suggested treatment applicable to both these parasitic diseases Malachite green. I found this article very absorbing as I am begining to get very inquisitive about fishy diseases and their cause and cure. (I know prevention is better than cure !)

That cheeky chappie P.F.C,who used to do these reviews has gone and done it again.. In the October P.F.M. he's written a review of some of the world's aquarium society publications

entitled "round the Bulletins", that feller can sure turn out some interesting stuff, and he's technical with it. Good reading though it is, it puts my efforts to shame, so please don't read it. (editors notes Ayone got a blue pencil, that last paragraph should have been censored.)

Plymouth and District .A/S are discussing the introduction of a quarterly magazine together with a monthly newsletter to replace their present publication. We must extend to them our best wishes in their new venture.

In the October issue of their "**Fishy News**" the editor reprints an article from **FinChat** of July '60 by Howard Wright and entitled ".A Portable Show Tank" It seems to be the answer to the problem of showing a large fish to it's best advantage, with all the controversy at the moment .About the show jars this is certainly an idea to think about, it saves all that fiddling about bringing the fish to the show in a plastic bag and then transferring it to a show tank without mishap. (Pity Bob Wallings has got rid of that "cat" that performed so well at the Thurrock Inter-club).

"To Clean a Tank" is the title of Ed Gralewicz's piece in the **Splash** (Milwaukee .A/S) for September. If you are new to the hobby Ed can help you to clean your tank with the minimum of mess, a thing most of us have learnt through trial and error.

At last Peter has been able to get hold of **Anchor** the San Francisco A/S newsletter we are always reading about in our other exchanges. If you've time to sit down quietly there's an article on the Killifish of Fernando Poo (Cameroons), that needs carefully digesting, but to the Killifish fans this will prove interesting. I have only browsed through it quickly, must find time to get to grips with it- (Bet our editor would appreciate a 12 page article).

Don't smoke near your guppies, they don't like the smoke. The dangers of nicotine are greater to the guppy than to any other fish causing birth defects and crippling among the young, according to Alex Bartsch. Of course nicotine is found in many other things apart from cigarettes, but an experiment proves that when the water was aerated with air saturated with tobacco smoke the effect was indicated within three to five minutes. The article entitled "Cigarettes and the Guppy" (**Anchor** September) is translated from the German by Albert. J. Klee, the editor of the "Aquarium".

THE OLD FISH

contributed by R.D. Orford.

In a cottage garden in Brockley, Gloucestershire there- is a headstone in memory of a fish, it reads:-

"Under the soil the old fish do lie, twenty years he lived and then he did die. He was so tame, you understand, he would come to eat out of your hand.

Died April 30, 188?, aged twenty.

HOW TO MEASURE YOUR FISH AND PLANTS.

by R. Wallings.

Have you ever tried to measure the length of individual fish in your aquarium without netting them and so disturbing them.

After many different attempts to check the approximate growth of some of my fish, I found that by ruling the front glass of the tank; vertically with a felt tip marking pen. I found that I was able to get an approximate size of each individual fish as it passed in front of the glass.

This system can also be used for watching the growth of plants under various experimental conditions. When doing this it is only necessary to make small horizontal marks on the glass to indicate frond tips and to add the date.

When the markings are no longer required the glass is easily wiped clean with a damp cloth or sponge.

INTER-CLUB MEETING - ..ANTHONY EVANS' LECTURE

by R.D. Orford.

Anthony Evans , the editor of PetFish Monthly gave us an interesting talk on the tele-receptors of aquatic animals, on October the first,

Tele-receptors are the eyes, nose, ears, lateral line, and so on. .all the information coming to a fish has to come some distance be it an hundredth of an inch or half a mile; hence the term "tele-receptors".

Mr Evans went on to tell us of an amusing experiment on a shrimp and how this unfortunate was made to think that the world was upside-down. Shrimps have tiny holes in their heads. In this hole they manage to place a tiny grain of sand which rests on minute hairs. Depending on whereabouts inside the cavity the grain of sand rests the shrimp will know whether it is upright or not. Should the shrimp be turned on it's side or upside-down the grain of sand will move and the shrimp will be informed of it's change in position.

Shrimps cast their shell or carapace to enable them to continue- to grow, in doing so it loses it's grain of sand. Bfore the shrimps new shell hardens it must find a new grain of sand because the hole in the shell closes in time. In the natural state he finds his sand easily.

In an aquarium the shrimp can be "got at" , and our friend shrimp was very much got at, someone gave him an iron filing

in place of his grain of sand, and then started; holding a magnet over the top of the aquarium. The shrimp immediately turned upside— down !

Unfortunately, Mr Evans was unable to give us a long talk on tele-receptors because he got lost in our maze of one way streets and arrived a little late. Never-the-less, I hope that some day soon he will have time to visit our club again.

LETTERS

.An Expression of .Appreciation to S.L.A.D.A.S.

Sir,

As you may have read in the last issue of the JOURNAL we were unfortunately victims of the floods last September. Those of you who have been round since can appreciate the position we are in at the moment, but luckily we were insured and it's just a matter of time now before we are back to normal, or almost.

"A friend in need is a friend indeed" is an apt saying in our case, and may we take this opportunity through the journal to thank all S.L.A.D.A.S. members for their sympathy and help, and for the numerous presents of fish that have been arriving to make up our diminished stock in the fish house.

In particular we should like to thank Ted Thompson for his kind enquiries and offer of help, the committee as a whole and especially Don and Chris Finch who rushed round on a busy Saturday 'morning to see what they could do, and for the toys they brought for the children who lost most of their treasures, likewise for the indoor plants to brighten up the place. Thanks to Don for his help in assembling the newly delivered bunk beds for the girls.

Special thanks too, to Bob Wallings, who took on the heart- breaking and unenviable job of sorting out the chaos in the fish house. The water reached four foot six out there so you can imagine what a mess it was when the water subsided. There were dead fish everywhere and we do believe he even tried the kiss of life on one or two specimens we had out there !

So may we say thank you to S.L.A.D.A.S. for proving that the club spirit is still with us.

(signed)
Steve and Jackie Norris,

LETTER FROM AUSTRALIA

Stan Hamblin has been true to his promise and written to me from West Australia, he writes.-

Dear Peter,

Just a few lines to let you know that we have arrived safely in 'West Australia.

The weather here is lovely with about thirteen hours sunshine each day and the temperature today is 91° F but it is not uncomfortable as we have a nice sea breeze, We have just come in from sunbathing.

We did not get to see the aquarium at Cape Town as it was closed.

Near our block of flats we have a park called "Queens Gardens" and I would say that about a sixth of the area is pond with water lilies, ducks, one black swan, and millions of guppies.

In the city of Perth as far as I have seen there is only one Pet shop with fish for sale and they only have two small tanks. There are about four big dealers in the outer suburbs and as I have no transport I have only visited the nearest one, it is called Polands Aquatics and these are some of the prices quoted:-

Blackline Rasbora...3/6	Brilliant Rasbora...4/-
Red Line Rasbora....3/6	Red Tail Scissor....3/6
Harlequin.....3/-	Penguin.....4/-
Dawn Tetra.....4/-	Glowlight Tetra...,4/-
Flame Tetra.....3/6	Neon Tetra.....3/6
Black Neon.....4/-	Silver Tetra.....4/-
Black Widow.....3/6	Kissing Gourami\$/-
Silver Gourami ?/ -	Thick Lip Gourami...,5/-
Opaline Gourami.....5/-	Blue Gourami ,.....5/ -
Dwarf Gourami3/-	Golden albino Barb..3/6
Sumatra Barb.....4/6	Tinfoil Barb.....4/-
Silver Angels..... ,4/-	Black Angels. ,6/-
Fantail Goldfish.....7/-	Black Moors.....?/-
Kalachroma..... 6/6	Ramerizi.....,6/-
Kribensis.....6/-	Serpae Tetra.....3/6
Mollies.....4/-	Platys.....4/-
Red Swordtail.....3/6	Zebra.....3/-
Red Tail Shark.....6/6	Red Tail Black Shark.6/6
Red Tail Botia.....6/-	Yellow Tail Botia....6/-
Striped Botia.....6/-	Glass Catfish.....4/6
Golden Pencil Fish...3/6	Climbing Perch.....3/-

-12-

Darwin Glass Fish.....3/-
Algae Eaters.....3/6d
Flying Fox.....5/-
Coollie Loach.....3/6d
Fire Mouth Cichlid.....5/-
Large Silver & Black: Angels.,£1/7/6

The foods for sale are Hykro, Longlife and Phillips.

Tank prices are:-

24 x 12 x 15.£5/5/-
36 x 12 x 15.£8/10/-
72 x 21 x 14 nylon coated.. £32/-.
72 x 21 x 14 painted..... £15-

(Editors notes Stan quoted his prices in Aussie Dollars I have converted these to approximate Sterling values)

We think: the price of fish is not bad but that of equipment is a bit steep.

I have yet to join the: Perth.Aquarist Club but intend to in January, the fee- is £1/1/-
Our best regards to all the club members of S.L.A.D.A.S.

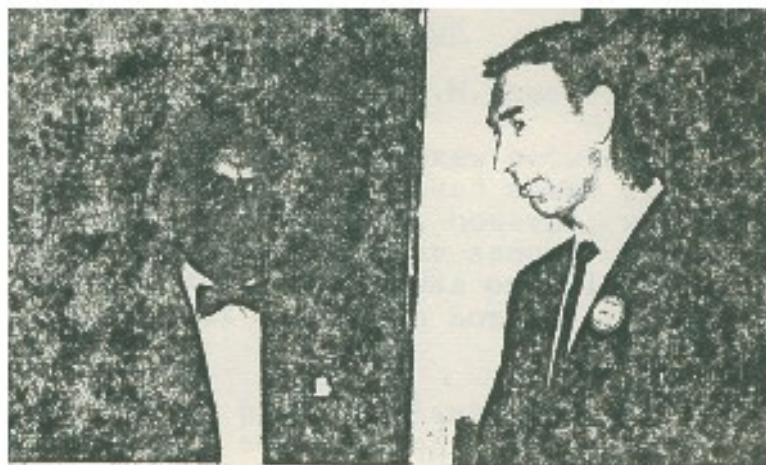
Our Best Regards from Stan and Edith
(signed)

**TABLE SHOW POSITIONS
FINAL RESULTS FOR 1968**

D..Edwards.....46 points	R. Bloxham.....5 points.
R. Passmore.....37 points	K. Ives.....4 points
P.F. Capon..... .24 points.	J. Norris.....4 points
R. Wallings.....23 points	A. Bobbin.....3 points
F. Hattam13 points	M. Goodall.....3 points
.D.M. Cheswright.....14 points	A. Huxter.....3 points
L. Mitchell.....10 points	R. D. Orford.....2 points
S. Norris.....10 points	E. Thomson.....2 points
B. Dunn.....8 points	T. Carter.....1 point
D. Finch.....7 points	T. King.....1 point
R. Parker.....6 points	E. Russel.....1 point
A. J. Mason.....6 points	

No points were added for places in the Inter-club table show at Maldon, as the members only had one days notice.

Our President Mr Dave Edwards welcoming the speaker for the evening, Mr Anthony Evans, editor of PetFish monthly



Presenting the winners, Thurrock with the gavel & block



Willing Helpers



The Speaker and judges discussing points after the show

HOME FURNISHED AQUARIUM COMPETITION

by D.M.Cheswright

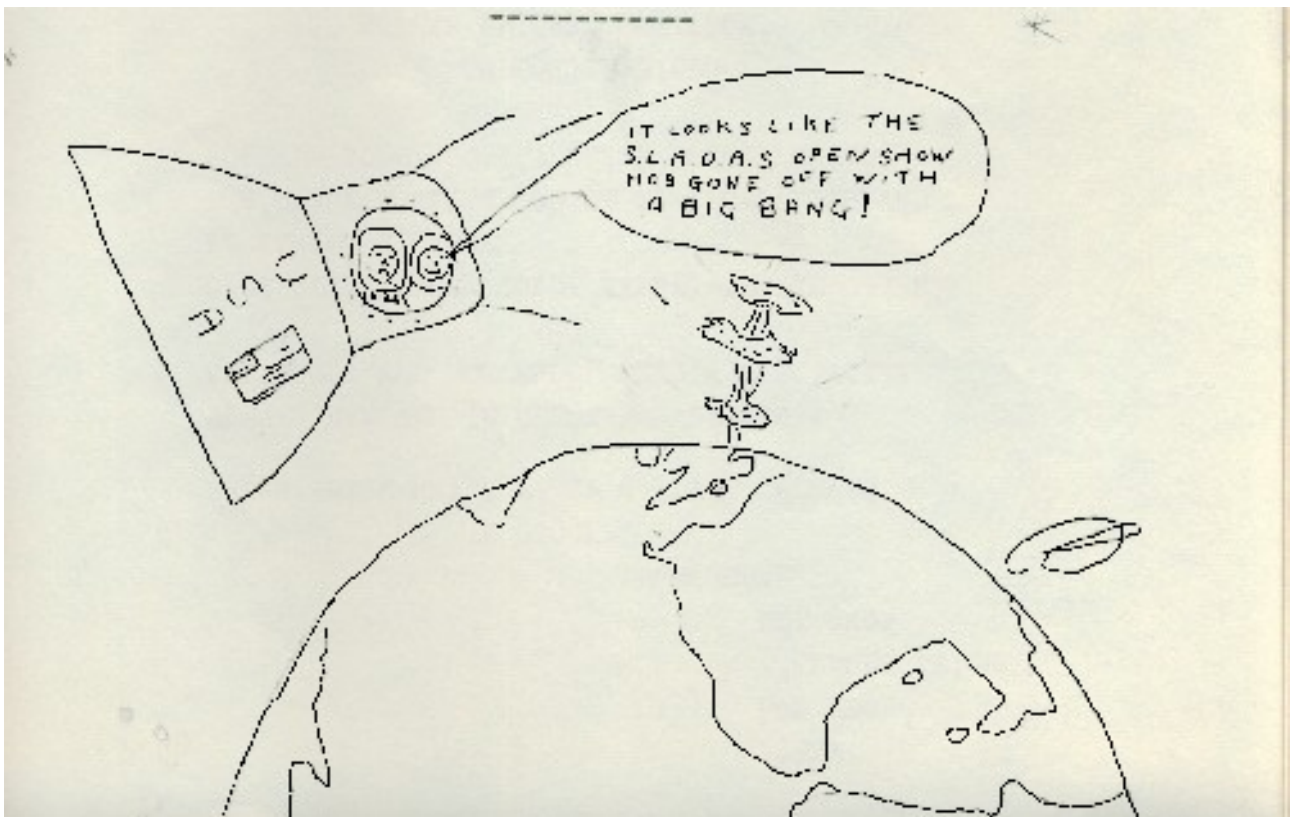
There were ten entrants , one of whom withdrew between our two judging visits. The winner Don Finch, streaked ahead with a tank. -which was hard to down point. ..11 entries, however, were of a reasonable standard and most had improved by our second visit; the second, third, and fourth finished very close on points. :

It will probably help future entrants if I mention some of the things to avoid.

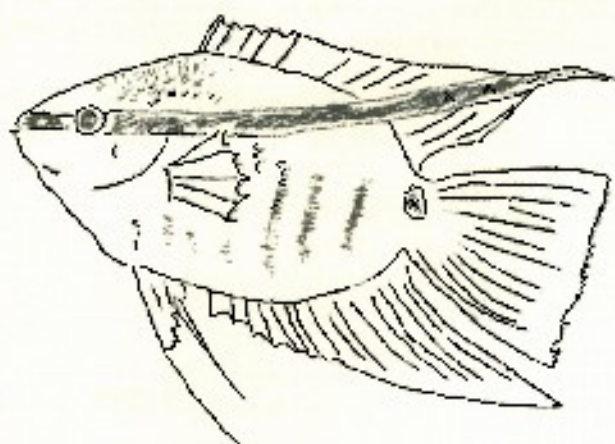
We were surprised to see so many plastic plants and felt that these had to be discouraged for this competition. In any case they tend to get dirty and we could not find any that had propagated, a broken light bulb was found in one tank and in some cases the wiring, etc could have been hidden away more successfully. Aeration and/or filters, if connected, should be in use. we also noticed dead plant leaves were not always removed.

Some very good background effects were produced, one of ' included alternative lighting in a rock set-up behind the tank

Perhaps the above moans will aid future entrants - let us see a large number in 1969. Finally, may I thank all entrants for their hospitality (not bribery) to myself, Bob Wallings and Tom King on our two visits to each home.



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CLUB NEWS

Meeting November 5.

This evening we had the Breeders table shows.

Breeders Egglayers

- 1.. D.Edwardsschubertis March
2. .R.Wallingsnigerianum.....July
3. .D.Chcswright.cherriesMarch
- 4.. D.Edwards.....playfairi.April

Breeders Livebearers

- 1.. D. EdwardsHi-fins.....April
- 2.. D. CheswrightLimia..April
- 3....P.F. Capon.Platys wag`March
- 4...D. Edwards.....Lyres.....March

The table show was judged by Ed Nicoll, Ed stated that the livebearers were poor.

The raffle this evening contained three prizes :-

- 1...John Cooper.....schuberti barbs.
- 2...Don Finch.....grindal worm culture
3. ..Peter Capon.....white worm culture

Sunday November 10

A number of members visited the PetFish Monthly Show in London. .An enjoyable time was had by all. My only adverse comment is the lack. of Tropical Marines on the I.M.S.S. stand all they had on display were several tanks of native marines. It was left to one of the dealers to show the public just how beautiful these fishes can be.

Meeting November 19

The most important meeting of the year the AGM. For the officers elected please refer to page 3
Thanks are due to the retiring officers - Michael Willis, Tom King, John Mason, Jack Reddington, and Steve Norris.

There were three prizes in the raffle :-

- 1...Colin Allen.....Pair of Giant Gouramis.
- 2...Bill Shorey..... Pair of nigerianum.
- 3...L.Mitchell.....Pair of cherries.

Included on the agenda this evening, was the table-show for the best fish of the year.

B.F.O.Y. Table show

- 1.. R. Passmore.. Discus .
2. ,R. WallingsNigerianum.
- 3....D. Edwards.....Combtail.
- 4....A.Bobbin.....Emperor tetra.

INTER-CLUB MEETING AT MALDON November 20

This meeting was arranged at short notice as far as S.L.A.D.A.S. was concerned our club being a substitute for the Harlow Society, The clubs taking part this evening were Blackwater (Maldon), Billericay, Witham, and Southend,

The four clubs took part in a quiz, with C.J.Skilton as quizmaster. trophy was awarded to the winning team.

The results were:- Blackwater 43 points, Southend 39 points Billericay 30 points, and Witham 5 points.

In addition to the quiz there was also a table show

TETRAS

- 1.. D.Edwards.....*Nannostomus trifasciatus*,
- 2...Mr Bird.
- 3.. Mr Cook.

LABYRINTHS

1.D..EdwardsSnakeskin gourami
2.Master Duval.
- 3.....Mr Kernpen.

LIVEBEARERS

- 1..Mrs Gee.....*Limia vittatus*,
- 2.,S. Norris.
- 3..S. Norris.

BARBS

- 1...Mr Murphy.....Tiger.
- 2,..Willet 3...R.D.Orford.

Southend's team for the quiz consisted of of :-

E. Wallings, D. Finch, D. Cheswright , D. Edwards, M. Willis & P.Capon.

Meeting December 2

This evening was the holiday slide show. mThe raffle a Rena pump was won by Mrs Upton.

Bob Wallings announced that he had booked the Municipal College Hall for our Open .Show in May. Bob asked to be allowed to stand down from the post of assistant show secretary as his election as Society Secretary at the AGM. meant he would not be able to carry out both duties,

Ted Clark, volunteered to take on the assistant Show Secretary's job.

Committee Meeting... 24 October, at 8 Blenheim Chase Leigh.

Present. President, Secretary, Treasurer, Bob Passmore, Peter Capon, Bob Orford, Don Finch, Jack Reddington, Tom King, Bob callings, and Steve Norris,

The treasurer reported that there was a loss of £2 on the Inter-club meeting, and that there had been about 130 people present-

Under any other business the following points were raised - a new library box, the secretary to approach Mr Catlin to see if he would allow us to use the larger hall on occasions. The forthcoming ...A.G.M. was discussed, most of the committee were willing to stand should the members wish but Tom King, Jack Reddington, and Michael Willis would not be standing for office.

WELCOME TO OUR NEW MEMBERS

Mrs Upton, 12, Merrivale, Benfleet.

Mr and Mrs C.C.Allen, 327, Eastwood Rd, Rayleigh,
W.E.Hadkiss, 19, Munsterbury Rd, Canvey Island.

The committee and. members all hope you will enjoy our meetings, should you have any problems don't be afraid to ask for help that is the whole point of S.L.A.D.A.S.

SOME DICTIONARY !

The Dictionary of English Language published before the war by Eyre and Spottiswood of London gives the following definition :-

OCTOPUS an eight armed cephalopod-, DOG-FISH

Since when has an octopus been a Dog-Fish ????????

S.L.A.D.A.S. PROGRAM

In case the program cards are not available we are printing the details of the first three months meetings,

JANUARY 7 Auction.

JAN 21. Barb talk, Barb table show.

FEB 4: Livebearers talk, Hardluck table Show.

FEB 18. Livebearer table show, Building a Fish House slides,

MARCH 4 General breeding talk, show standards talk.

MARCH 18; Inter-club meeting. Visiting lecturer.
Classes;- Barbs, Platys, and Fighters.

CUPS AWARDED FOR 1968

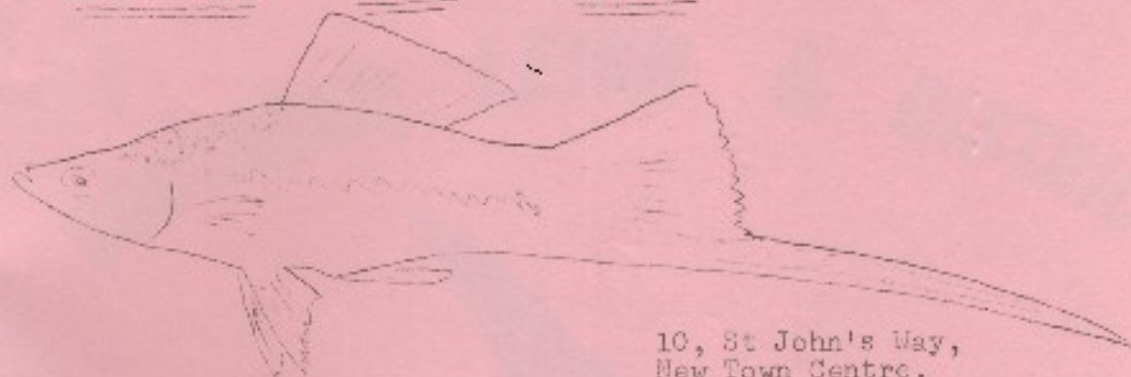
JONES CUP for Best Fish of Year.....R. Passmore.
BARNES~OAK CUP for breeders egglayers.....D. Edwards.
CORONATION CUP for breeders livebearers.....D. Edwards.
DUBOISSON CUP best characin.....D. Edwards.
LEN WILLIS CUP best tooth-carp.....A.J.Mason.
SAUNDERS CUP coldwater.....R. Passmore.
ABBOT CUP highest points in table shows D. Edwards .
SOUTHCHURCH CUP second points in table shows..R. Passmore.
BROOKES SHIELD first mini-tank.....P.F.Capon.
BROOKES SHIELD II second mini-tank..... R. Wallings.
GILES CUP home furnished.....D. Finch.

YOUR SPACE — YES YOUR SPACE

This space has been reserved for your article !! where is it ?

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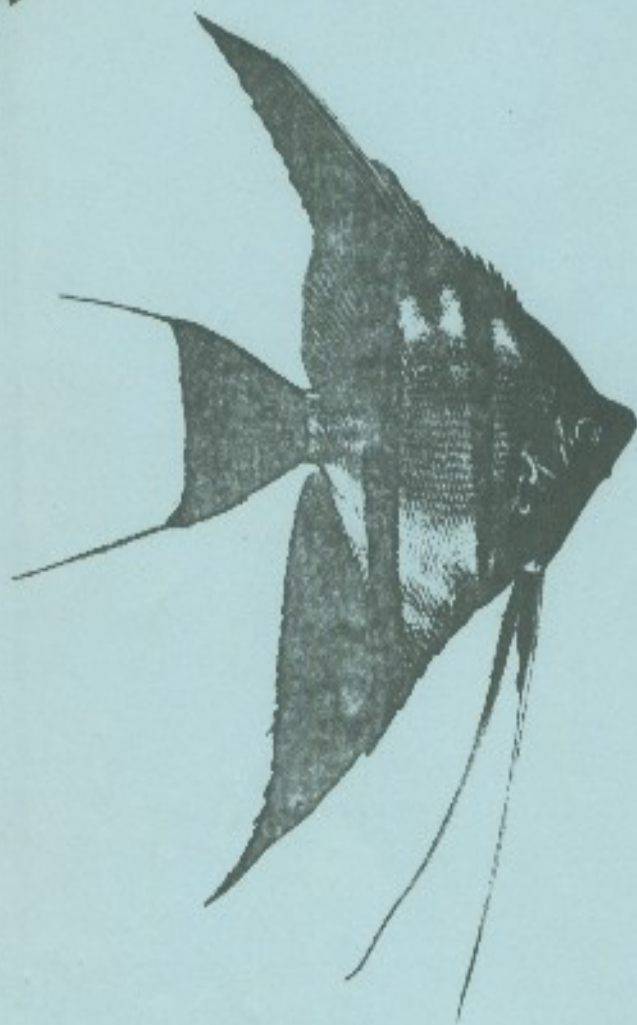
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Yours faithfully

(signed)

Eddie

SOUTHEND, LEIGH & DISTRICT



AQUARIST SOCIETY.

founded 1938

THE SOUTHEND, LEIGH AND DISTRICT AQUARIST SOCIETY
(founded 1938 or before)

The Society meets every first and third Tuesday in each month at 8.00 pm, at.-

**ST ANDREWS HALL
ELECTRIC AVENUE
WESTCLIFF-ON-SEA
ESSEX**

**BI-MONTHLY JOURNAL Number 25
MARCH 1969**

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THIS JOURNAL IS TWENTY-ONE IN APRIL

OFFICERS FOR 1969

PRESIDENT

D. Edwards ,
36, Grafton Road,
Canvey Island,
Essex.
Telephone Canvey 3164.

VICE-PRESIDENT

R. Passmore
39, Grafton Road
Canvey Island
Essex

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LIBRARIAN

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Southend-On-Sea
Essex.
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JOURNAL EDITOR

P.F. Capon
9, Locarno Avenue
Runwell
Wickford
Essex

ASSISTANT EDITOR

R. D. Orford
8, Blenheim Chase
Leigh-On-Sea
Essex
Telephone Southend 74542

PUBLIC RELATIONS OFFICER

D. Finch
165, Bull Lane
Rayleigh
Essex

REFRESHMENT SECRETARY: E. Bloxham

TABLE SHOW SECRETAY: R. Passmore

COMMITTEE MEMBER L. Mitchell

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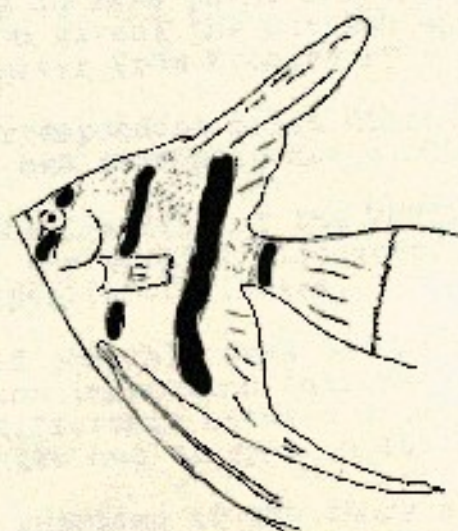
NOTICES

EDITORS OF CLUB MAGAZINES; PERISSION IS GIVEN TO REPRINT
S.L.A.D.AS. ARTICLES. A COPY OF THE MAGAZINE FOR THE AUTHOUR
WOULD BE APPRECIATED.

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=====

EDITORIAL

This is the last JOURNAL to appear before our OPEM SHOW by the time you are reading the May issue the SHOW will either be in progress or be over,

The show is S.L.A.D.A.S.'s first attempt at a Open Show for quite a few years and I am sure that all members want it to be a roaring success The only way to achieve this success is for each and every member to roll up his sleeves and give a hand. ask our show secretary Bob Passmore what you can do to help. Hands will be needed for all sorts of jobs from ferrying tanks to selling tickets at the door. If you just haven't got any spare time you can still help -- tell all your friends and get them to pop in to see the fishes.

Now an apology -- this JOURNAL is a little late it's the Editor's fault. I've been too busy loosing hundreds of fish with Velvet. I always thought I knew how to cure it but a tougher strain seems to have evolved or perhaps I am just not taking enough care,

I know it's not a good excuse but I'll try to get the next issue to Bob Orford for printing earlier.

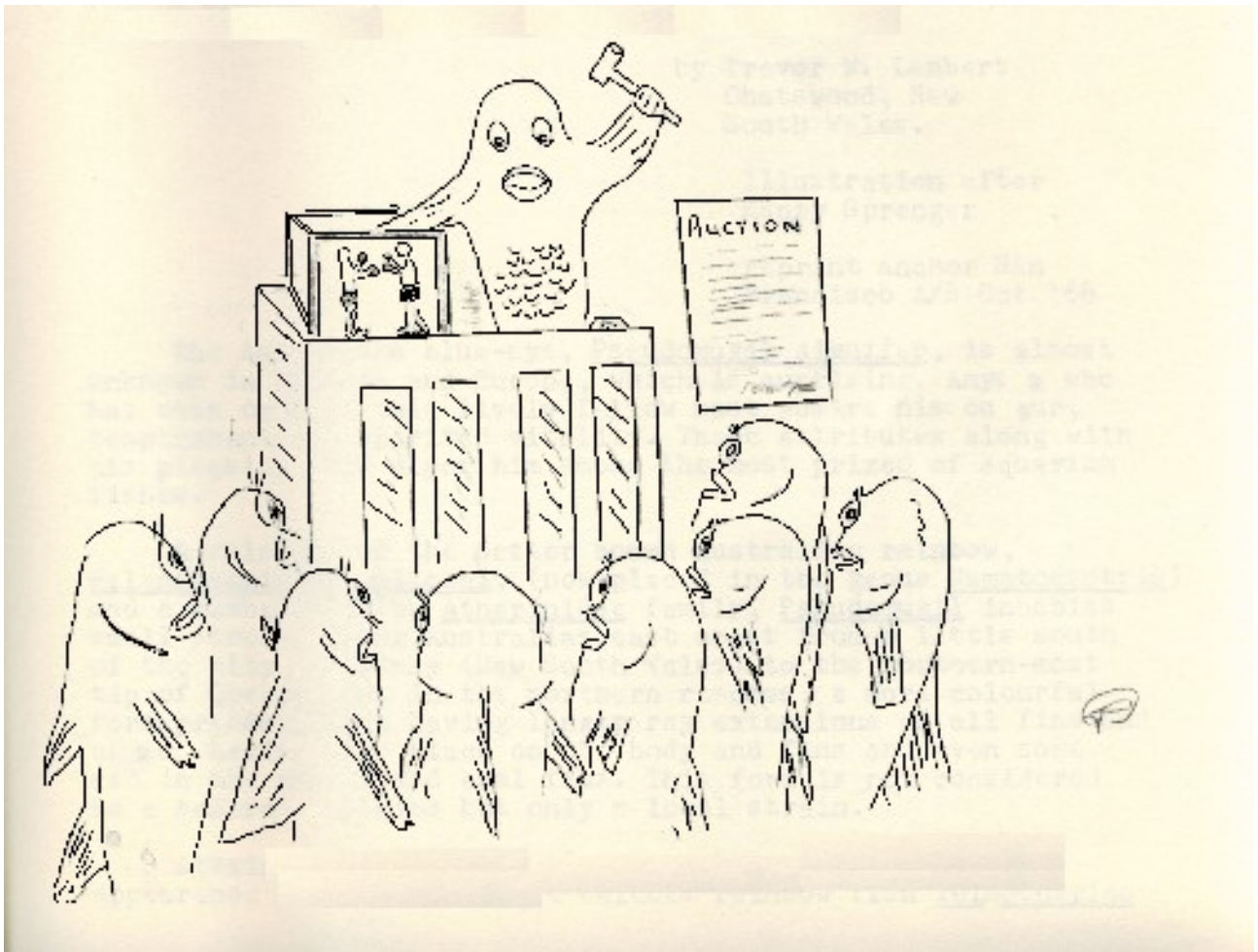




Illustration after
Kappy Sprenger

reprint anchor San Francisco.A/S Oct '68

The Australian blue-eye *Pseudomugil signifer*, is almost unknown in America and Europe, -which is surprising. Anyone -who has seen or kept this lively fellow must admire his colour, temperament and spirited vitality. These attributes along with his pleasing size place him among the most prized of aquarium fishes.

A relative of the better known Australian rainbow, *Melanotaenia mcullochi*, (now placed in the genus *Nematocentris* and a member of the Atherinidac family, *Pseudomugil* inhabits small streams along Australia's east coast from a little south of the city of Sydney (New South Wales) to the northern-most tip of Queensland. In the northern reaches, a more colourful form predominates, having longer ray extensions on all fins and often having more black on the body and fins and even some red in the dorsal and anal fins. This form is not considered as a separate species but only a local strain.

. Attaining a length of 2½ inches *P.signifer*'s general appearance is not unlike the Celebes rainbow fish *Telmatherina*

ladigesii, but he has much stronger colouring of both body and fins. The anal and dorsal, and to some extent the caudal fins are stained buttercup yellow. Dorsal and anal are strongly edged with black -while the small pro-dorsal and the keel-like anal have white tips of enameled intensity. The white is particularly evident in the straining fins of the playfully sparring males. The body is somewhat translucent but is saturated with a brassy tinge which shines from the scales with a metallic lustre, Along the lateral lines on either side is a row of iridescent blue port-hole spots further adding to its beauty. To stop here in my description would make this fish desirable, but the picture is not complete, for the eye predominates as the feature that is not easily forgotten. Of sky blue, large and gleaming metallicly, the eye possibly out "lamp-eyes" the lamp-eyes of Africa (*Micropanchax* sp).

The blue eye is best observed with a dark green background with sunlight coming from behind the observer or from directly overhead. In my enthusiasm I have nearly overlooked the female of the species, who apart from the blue eye, exhibits no features comparable with her sprightly mate. She is more transparent and lacks the fins and colours of the male.

Hardiness in the aquarium can be credited to the extremes under which the blue eye survives in nature. One finds them in soft water, brackish water, hard water, cold water and water with temperatures in the high 80's. In some streams near cities organic and chemical pollution have not deterred him.

Most streams in which he lives are quickly affected by tide Referring back to the business of territories, it is something to see a belligerent male blue eye dart from under his section of bank at an inquisitive young male, followed by zig-zag dashes at his adversary. This is done in short bursts with fins spread to tearing point. Having intimidated the weaker opponent he then struts about in the sunlight as the other fish flees.

When introduced to an aquarium *Pseudomugil* settles down quickly to his confined quarters, An aid to adjustment is the addition of one teaspoonful of common salt per gallon of water followed by gentle aeration.

Breeding this fish requires a ten gallon tank filled with medium soft (80 ppm) near neutral (7.0 pH) water with salt added. The fish are placed in the tank at night and the temperature gradually raised to approximately 76°F. *Riccia, fontalis* or any bushy plant in a clump and weighted, are ideal spawning media. The tank should be placed so that it receives morning light. Artificial light is probably as effective. I have noticed that the males seem to build up in tension as the sunlight intensifies.

Breeding commences with a lot of strutting, fin-stretching and sidling by the bossy male, who quickly convinces the female of his purpose. She follows him into the middle of the plants and the large (1.5 mm in diameter), clear, soft eggs are laid one or two at a time. Well fed parents ignore the eggs but it is better to remove the parents after spawning is completed. The eggs are nearly too soft to handle. So moving the parents is simpler.

The fry hatch in about 4-5 days and need infusoria on the second day, with live brine shrimp added on the third or fourth day.

Pseudomugil signifer, is in my opinion, meets the requirements of aquarists in general, and may, someday, find a place in the limited range of universally desired fish.

OBSERVATIONS ON 'WHITE SPOT

by A.B. Huxter.

These observations may or may not have been noticed by other members, but as I have not heard anyone ever mention them I thought it might be of interest to bring it to members notice.

I have only twice had the misfortune to contract white spot. On both occasions it was after setting up a tank with fresh tap water. My method is to thoroughly wash the gravel, fill the tank with water, position the plants, and then set the temperature to appropriately 76°F. I leave the tank for about a week before introducing the fish. Both my cases of spot appeared within days of adding the fish.

The first time I had white spot was in a cold water aquarium and the second occasion was in a tropical tank.

After noticing the coincidence I made a point of asking other hobbyists whether they had noticed white spot after setting up their aquarium. At least two or three people confirmed that they had.

My latest aquarium is cold water, before introducing

anything (in other words a completely bare tank) I let the water stand for about four weeks, then carried out my normal procedure. This was about four months and to date there is no sign of -white spot..

As the fish and plants came from a reliable source, where I regularly buy all my stock, I feel that white spot is not introduced by any new stock.

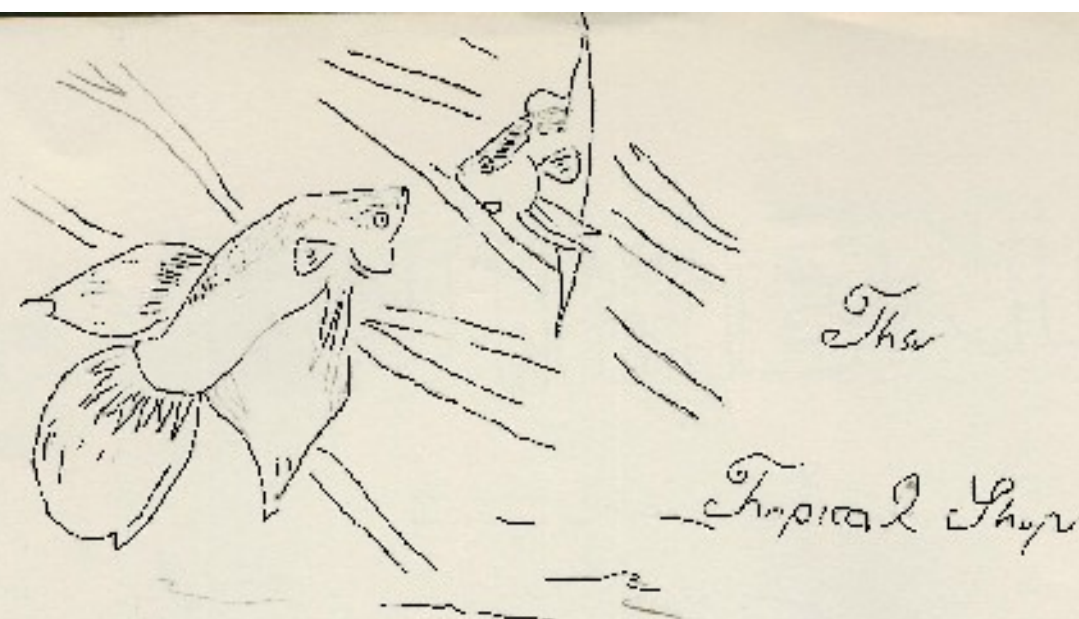
Maybe the answer is obvious to all but me, if so I will be pleased to hear about it. If not perhaps one of our more learned members can pursue this.

Editors note Well, Alan at first sight it would appear that your spot comes in with the tap water and then manages to survive without any fish to feed on for a whole week. This is very unlikely for the tap water is treated chemically to make it safe to drink and this treatment would certainly kill the white spot parasite. Even if the plants introduced the disease it would be dead before the fishes were put into the tank. According to many authorities the spot organisms cannot survive a week without a fish to feed on.

To my mind the only way the spot can get into your tanks is with the new fish. The dealer may be very reliable but it is next to impossible for him to prevent spot getting into his tanks, it usually comes in with imported fish.

He didn't mean to sell you fish carrying white spot I am sure but it is almost impossible to check dozens of tanks and thousands of fish in minute detail several times a day.

Please don't go and tear the dealer off a strip, he really does his best. A small isolation tank is your safest bet - keep ALL new fish in this tank for AT LEAST two weeks before putting them into your show tanks. Isolate EVERY fish you got no matter how good the reputation of the dealer or aquarist. Even isolate, any fish that you might get from ME; it pays in the long run«



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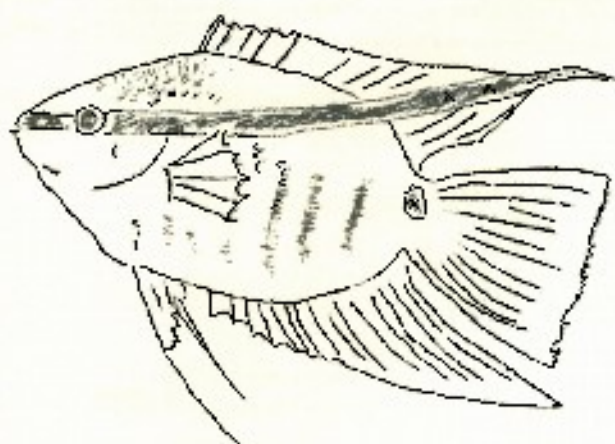
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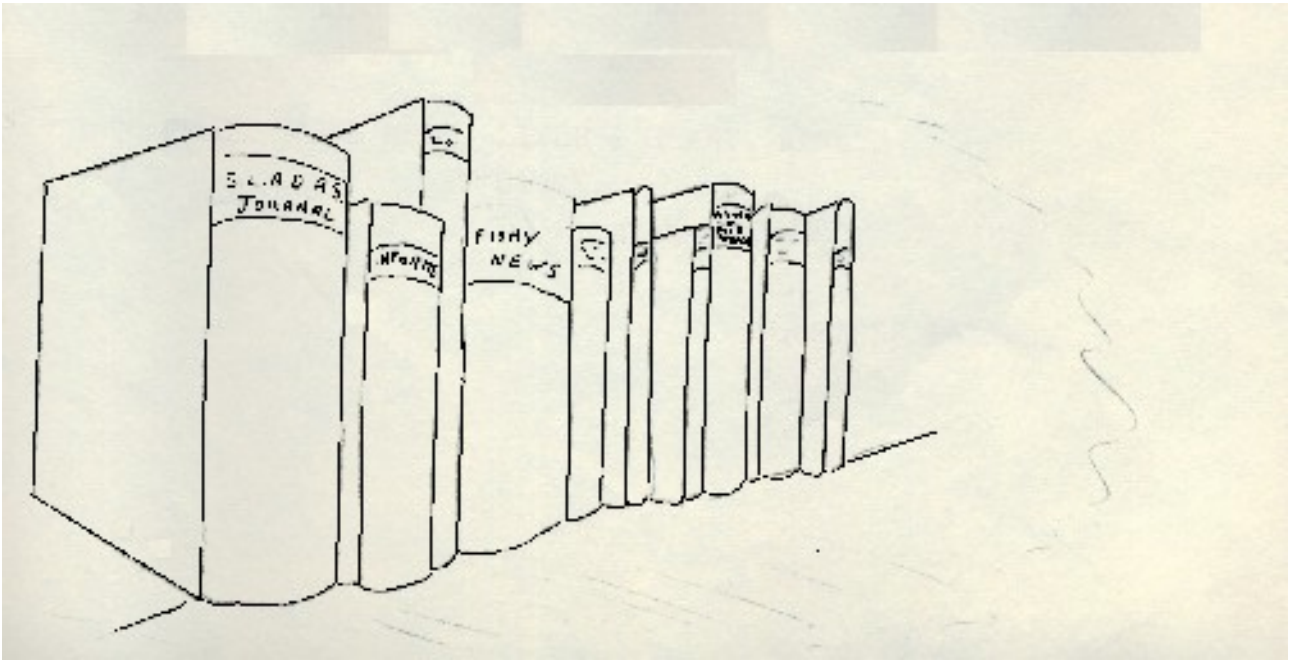
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EXCHANGE REVIEWS

by Jackie Norris,

The Colorado A/S have come up with a good idea which we could easily copy. They are experimenting at one meeting, and if the project proves popular, they will repeat it at various times throughout the year.

The idea is to set up a table where members can place any fish or equipment that they wish to sell or exchange. There is a nominal charge for use of the table, so to speak. But on second thoughts, our auctions are a lot more fun'.

A nice little article on the Dwarf Gourami is featured in the **Colorado Aquarist** (October) by Alicejean Eman. Ella Pittman gives us the run down on live foods and "what is necessary to keep them going in culture form. Yet another lady contributor to this bulletin is Margaret S. Weber who decided to experiment with a brackish water tank. As the author states, there is very little written information on the subject, the only answer being trial and error. But Margaret says that it is of greatest help to first understand both freshwater and fishkeeping techniques before attempting to set up a brackish water tank. If in doubt, the way to err is strictly to marine side. Don't forget - no metal objects in the which will contain 25% salt water,

Are you pro- or anti- tubifex? Joe Anascavage is positive about them and will continue to feed his fish a diet of live tubifex worms as he has for about three years with no ill effects at all. Joe is feeding tubifex to such killies, discus, guppies, and many varieties of livebreeder and eggayers, and says he will continue to do so until any unfavorable effects are apparent. A tip to keeping fresh needs a refrigerator and a co-operative wife who is willing for her family's food to be stored next to a few jars of tubifex. Apparently the low temperature that the

worms are subjected to in the 'fridge makes the problem of feeding them to keep them alive non-existent. They can live up to two weeks without food in a fridge, that is if you can get away with it that long without screams of protests from the missus. The article can be found in it's entirety in the September issue of **Aqua Jewels**.

On the other hand, George Torres is anti-tubifex as he emphatically states in the following (October) **Aqua Jewels**. He asks why Joe Anascavage thinks tubifex is a good food, which is a point to George I must agree, but why all the words like filth and disease which as I read it are shouted at the top of George's voice. May I say that everyone is entitled to his opinion. Many people are very derisive when it comes to the use of tubifex, but are they sure they cause all those diseases, velvet, shimmies, pop-eye etc? Couldn't it be that those diseases are caused by the dirt and parasites not washed away properly? What do people mean and how do they define the term "thoroughly washed"? To some people this may mean three or four rinses in coldwater, to others it may mean subjecting the worms to the running water method for several hours at a time.

As Joe says, the final decision must lie with the aquarist himself, but the battle of the tubifex will be waging for many years to come. how about some views from our members, Peter would be glad to print anything you care to say on the subject. (Ed's note I am anti-)

Two nice articles are to be found in the NIAS bulletin for October. Both are by Ed. Rau from **Fin Fun**. The first, entitled "Better Guppies" will be of interest to our guppy fans -or is it fan? The other entitled "The Danio" could be useful to the novice who is just attempting to breed his fish. Many people say the danios, zebras in particular, are the easiest fish to breed.

There is yet another controversial matter raised in a letter to **PetFish Monthly** (Nov) by a Mrs Roche of Walworth S.W.17., who believe it or not has tried to induce white spot in her tanks, with especial regard to the clown loach and the beacon fish both highly susceptible to the disease. Mrs Roche writes " During the experiments I have never let the subjects (fish). come into contact with live food of any description feeding only with dried food, chopped meat, tinned peas, etc.. Although I have succeeded in killing a few specimens, I have never been able to induce white spot in spite of the appalling conditions the fish were subjected to.

The lady has tried dropping the temperature by as much as 12°F and her conclusion is that " unless the protozoan itself is introduced there is no white spot.. Mrs Roche has only encounter;' white spot upon introduction of new stock -nearly always wild, very rarely home-bred stock. What do you think?

Also in the November **P. F. M.** , an enlightening article on the spawning of the Arulius barb, with 'photos, of course.

A new feature that was suggested by a novice entitled "Beginners Guide to Fishkeeping" starts off a new series in **P.F.M.** Very informative for the very new enthusiast and the December issue promises advice on the wiring, layout and furnishings for your tank.

TABLE SHOW POSITIONS
as of 18/2/69

R. Wallings	6 points
D. Little.....	4 points
S. Norris.....	4 points
K. Ives.....	4 points
R.D. Orford.....	3 points
P.F. Capon.....	3 points
L. Curtis.....	2 points
D. Edwards	2 points
T. Clark.....	1 point
A. Bobbin.....	½ point
R. Parker.....	½ point

WELCOME TO OUR NEW MEMBERS

S.L.A.D.A.S. would like to welcome our new members :-

H.T. Dunmow, 9, Kcndal Close, Hullbridge, Essex.

K.A. Adams, 19, Marine Approach, Canvey Island, Essex.

CLUB NEWS

Meeting January 7

The main event this evening was an auction

The raffle of two small show tanks was won by :-

1...J. Norris.

2... P. F. Capon.

Dave Edwards announced the competition to design a new Prize card.

Meeting January 21

Dave Edwards gave an interesting talk on the barbs garnishing his talk with his own experiences in keeping and breeding this interesting group of fishes. Whilst Dave was giving his talk our other Dave , Dave Cheswright was judging the table show for Barbs.

TABLE SHOW BARBS

- 1...K. Ives,.....Nigger.....86 pts.
- 2...P.F. Capon.....Checker.....84 pts.
- 3...D. Edwards.....Rosy.....82 pts.
- 4..T. Clark. Cherry.....78 pts.

There were 23 entries.

Meeting February 4

This evening was ruined for everyone by that Capon fellow trying to give a talk on the livebearers, it sounded like a load of rubbish to me !!

The raffle of four bags of plants was won by :-

- 1.. H..Dunnow.
- 2...L. Mitchell.
- 3...Mr Upton.
- 4...Mr Hyde.

TABLE SHOW. HARD LUCK

- 1...S .Norris..... *Poecilia (molliensia) velifera*
- 2...R.D Orford.....*Leporinus*.
- 3...R.Wallings..... Platy black.
- 4...A.Bobbin..... *P.kribensis*
- 4...R.Parker..... Jack Dempsey.

Meeting February 18.

By popular request Dave Cheswright brought along his slide show on building a fish-house, complete with descriptions from. Dave on how he went about it.

TABLE SHOW; LIVEBEARERS

- 1...D. Little.,,.,,.....Black Sail fin molly.
- 2..R. .Wallings.....Red Platy.
- 3..L.CurtisMolly.
- 4...R.Wallings.....Red platy.

The raffle of two books on general breeding were won by,Mr Dunmow, and L. Mitchell (the latter donated his book to the library).

-
Our Refreshments Secretary worked under considerable difficulty, the taps were all frozen. We all got our tea somehow but Ted was forced to take the cups home to wash them - - thanks Ted !

Meeting March 4

We were pleased to welcome our ex-president John Mason this evening. John talked to us about breeding and show standards. An interesting point that John raised was that he had unwittingly bred Khuli loaches in the Basildon shop. He found six half inch fry in a tank that had contained these fish.

The raffle this evening was won by :-

- 1...Bob Orford.....selection of nets
- 2...Wally Hadkiss.. .selection of nets.
- 3...Ken Adams selection of nets.

The three raffle winners were all sitting next to one another which obviously raised cries of mock derision from the hall.

INTER-CLUB TABLE SHOWS

March 18 SOUTHEND

BARBS, PLATYS, MALE FIGHTERS.

May 16 EAST LONDON

TOOTH CARPS, MALE GUPPY, DANIO RASBORA W.C.MINNOW, CICHLID.

BASILDON date to be announced.

A.O.V. LABYRINTH, CAT FISH, SWORDS.

ThURROCK date to be announced

AO.V. TROPICAL, A.O. V. COLDWATER, CHARACINS, MOLLIES.

COMMITTEE MEETING REPORTS

Meeting January 30 held at 2, Cedar avenue, Wickford, present:-
President, Treasurer, Ray field, Bob Passmore, Peter Capon, Don Finch, Alan Huxter, and Lawrence Mitchell. Apologies from Secretary, Bob Orford, and Ted Bloxham.

Under matters arising it was decided that new members should be required to pay their subscriptions on their third visit, and that only paid up members should be able to enter table shows. The deposit for the outing to the Zoo was paid to Eastern rational.

It was reported that the Southchurch Cup was in a damaged condition and it was suggested that a new cup might be bought if this one could not be repaired . It was suggested that we invite other clubs to join us on the 2nd of September when S.L.,A..D.L..S. will be honored by another lecture by Anthony Evans. (Interested clubs please contact our secretary as early as possible),

The secretary was asked to check on the large hall should the present hall become overcrowded, Allan Huxter mentioned that many new books were needed in the library. Bob Passmore reported on the progress on the Open Show,

Meeting February 27 at 36, Grafton Road, Canvey Island,
Present President, Secretary, Treasurer, Don Finch, Ray Nield, Bob Passmore, Lawrence Mitchell, and Peter Capon, apologies from Bob Orford, Alan Huxter, and Ted Bloxham.

The treasurer suggested that we buy more badges. Dave Edwards, Bob Passmore and Don Finch to arrange to erect staging for the Inter-Club Show.

The prize card competition was judged the results were:-
1.. .R. Wallings , 2. A..Bobbin, 3..,R.Clark.

L. Mitchell asked if members could be approached for books they no longer required for donation to the library,
The Secretary suggested that arrangements be made to visit the New Brighton Aquarium and Dolphinarium late this summer.

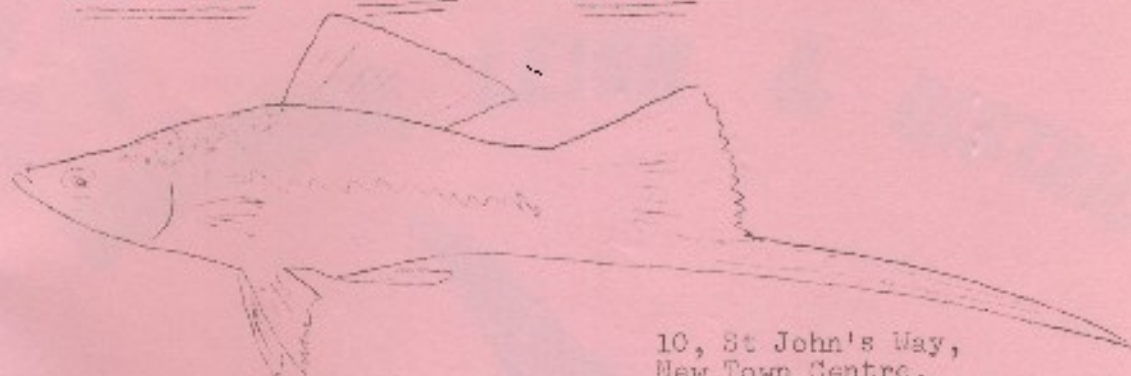
Don Finch suggested that S.L.A..D.A.S. might donate an aquarium to Southend General Hospital.

POISON FOR PESTS

contributed by D. Cheswright

In the Financial Times for the 29th of January there is a note concerning a chemical which is dispersed in rubber and which is claimed to kill mosquito larvae, snails and parasites. The poison , ethanalamine salts of salicyl anilides, is slowly released from the rubber when it is put into water. The chemical and rubber application method has been patented by B.F.Goodrich Co of Cleveland, Ohio. The chemical is said to be harmless to humans, cattle, and fish. Perhaps this system could be adapted for use in aquaria, who knows ?

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Eddie

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OPEN SHOW, 1969
MAY 2nd & 3rd,**

**AT COLLET OF TECHNOLOGY, VICTORIA CIRCUS, SOUTHEND
QPE'N TO PUBLIC 3rd MAY, 12 noon to 7 P.M.**

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F.C.TOMKINS, F.B.A.S.

SCHEDULE OF CLASSES

1. A.V.GUPPY
2. A.V.PLATY
5. A.V.SWORDTAIL
4. A.V. MOLLY
5. A.V,CICHLID
6. A.V.BARB
7. CHARACINS
8. EG3LAYING TOOTH CARPS
9. DANIOS, RASBORAS & WHITE CLOUDS
10. MALE FIGHTER
11. A.O.V.LABYRINTH
12. CORYDORAS CATFISH
13. A.O.V. CATFISH, LOACH & EEL
14. A.O.V.TROPICAL
15. A.V. COLDWATER
- 16 BREEDERS EGGLAYER (4 fish)
- 17 BREEDER EGGLAYERS (4 fish)
- 18 FURNISHED AQUARIA

NOTE: MARINES WELCOMED.CLASSES WILL BE AT THE
DISCRETION OF THE SHOW SECRETARY. ALL. MARINE EXHIBITORS TO SUPPLY
THEIR OWN TANKS, WATER, EQUIPMEINT, etc..

ENTRY FEES

CLASSES 1 to 15 ., 1/6d per entry
CLASSES 16 & 17 2/- per entry
CLASS 18 2/6d per entry

Cheques, Postal Orders, Money Orders, etc., to be made payable to SOUTHERN, LEIGH & DISTRICT AQUARIST SOCIETY

ENTRY FORMS AND FEES TO BE SENT TO:-

SHOW SECRETARY
Mr.R.L.PASSMORE,
39, Grafton Road,
Canvey Island,Essex.

CLOSING DATE FOR:. ENTRIES, Friday, the 18th, April.
BENCHING- CLOSES Friday, 2nd..May at 10 p.m.

GENERAL RULES

1. All exhibits to remain the property of the Exhibitor.
2. Exhibits will be judged to F.B.A.S standards.
3. Each exhibit tr- be entered in one class only.
4. Exhibitors shall not alter or interfere with exhibit after show has commenced.
5. No exhibit shall .be removed until the show has finished without written consent of the Show Secretary
- 6 Organisers reserve the right to refuse any entry.
7. Show organisers will not accept responsibility for loss or damage to exhibits.
8. During judging period only F.B.A.S officials and show. stewards will be allowed in exhibition area.
9. All award labels will be fixed to containers.
- 10 Award labels will be coloured as follows:-:
1st, RED. 2nd, BLUE. 3rd, YELLOW. 4th, GREEN.
11. All entries submitted shall abide by the rules.
12. All containers will have dark bottoms.
13. Tank Size: 14" x 10" x 10"
- 14.Classes can be amalgamated or divided at discretion of Show Secretary.

FURNISHED AQUARIA RULES

1. All tanks will be 24" x 12" x 12".
2. Tanks, fish, plants, gravel and rockwork, etc. to be supplied by "Exhibitor,
3. Only tropical plants allowed in tropical tanks; Coldwater plants in coldwater tanks.
4. No appliances other than heaters and thermostats to be used.
5. No coloured, lighting (Gro-lux,, etc.) will be permitted.
- 6.Any Exhibitor contravening the rules will be liable to disqualification.

BREEDERS RULES

1. All Exhibitors must state date of birth of entry,
2. All exhibits must contain four live fish,
3. Exhibits may "be shown in singles, pairs or fours;
four fish will "be classed as one exhibit .
4. No exhibit shall be more than. one year old on May 3rd-

JUDGING

1. Judges will operate to F.B.A.S standards and rules
2. Judges will not move any exhibit,
3. Judges are at liberty to leave the show if it is not operated to F.B.A,S rules.
4. Judges" decision will be final,

AWARDS,

BEST FISH IN SHOW	"AQUARIST" GOLD PI:N"
D.EDWARDS CUP	BEST BARB
R,PASSMORE CUP	BEST CHARACIN
S & J.- NORRIS CUP	BEST GUPPY
T.KING CUP	BEST SWORDTAIL
STANDARD RADIO CUP	BEST CICHLID
J. COOPER CUP	BEST CORYDORAS CATFISH
CHES CUP	BEST BREEDERS (EGGLAYERS)
S.L.A.D.A.S.CUP	BEST BREEDERS (LIVEBEARERS)
S.L.A.D.A.S.CUP	BEST PURITISHSD AQUARIA
WINDERMERE PERPETUAL TROPHY	BEST A.O.V.TROPICAL, l4ARINE, or FRESHWATER

F.B.A.S. TROPHY applied for,

This list of awards and cups is complete at the time of going to press.

NOTE: Plaques will be awarded for Best fish in Classes not already mentioned.

Prize cards will be awarded to the four best fish in each class.

ENTRY FORM

CLASS N°	ENTRY N°	DESCRIPTION & REMARKS

ENTRY FEE

		TOTAL	

DUPLICATE ENTRY FORM

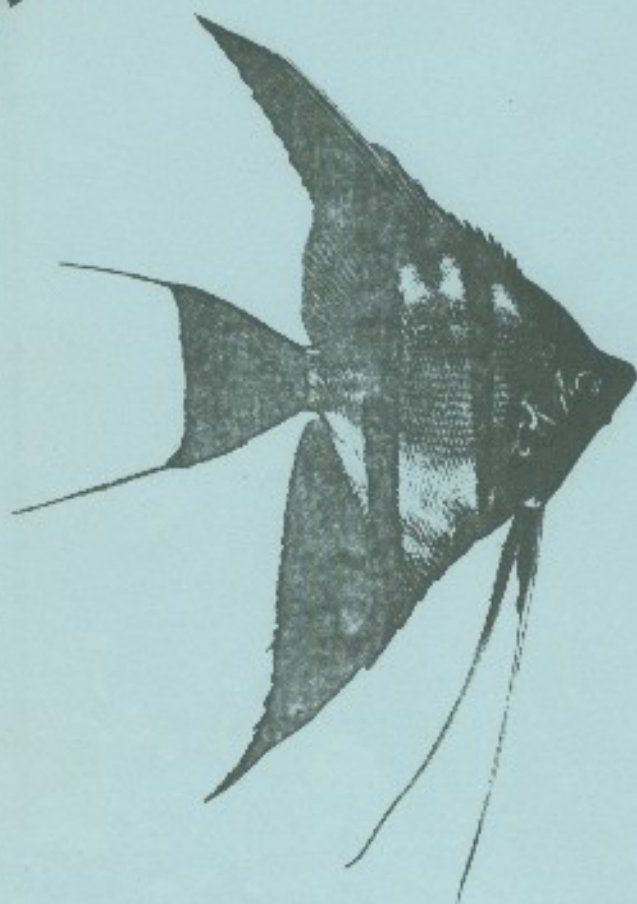
To be retained by the exhibitor and produced before removing exhibits

CLASS No	ENTRY No	DESCRIPTION & REMARKS
----------	----------	-----------------------

ENTRY FEE

[illegible]

SOUTHEND, LEIGH & DISTRICT



AQUARIST SOCIETY.

founded 1938

THE SOUTHEND, LEIGH AND DISTRICT AQUARIST SOCIETY
(founded 1938 or before)

The Society meets every first and third Tuesday in each month at 8.00 pm, at:-

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**BI-MONTHLY JOURNAL Number 26
MAY 1969**

OPEN SHOW ISSUE

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THIS JOURNAL WAS TWENTY-ONE IN APRIL

OFFICERS FOR 1969

PRESIDENT

D. Edwards ,
36, Grafton Road,
Canvey Island,
Essex.
Telephone Canvey 3164.

VICE-PRESIDENT

R. Passmore
39, Grafton Road
Canvey Island
Essex

HON: SECRETARY

R. Wallings
93, Salisbury Avenue
Westcliff-On-Sea,
Essex.

HON:TREASURER

D.M. Cheswright
2 Cedar Avenue
Wickford
Essex
Telephone Wickford 2531

LIBRARIAN

A. Huxter
43, Park Lane
Southend-On-Sea
Essex.
Telephone; Southend 66148

JOURNAL EDITOR

P.F. Capon
9, Locarno Avenue
Runwell
Wickford
Essex

ASSISTANT EDITOR

R. D. Orford
8, Blenheim Chase
Leigh-On-Sea
Essex
Telephone Southend 74542

PUBLIC RELATIONS OFFICER

D. Finch
165, Bull Lane
Rayleigh
Essex

REFRESHMENT SECRETARY: E. Bloxham

TABLE SHOW SECRETAY: R. Passmore

COMMITTEE MEMBER L. Mitchell

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EDITORIAL

First of all, all the members and officers of S.L.A.D.A.S. would like to welcome all the visitors to their first open show for several years, we hope you will enjoy browsing around the exhibits and we very much hope that you will be fired into finding out more about this fishkeeping!

Fishes are very restful to watch and what more could anyone ask than a hobby that allows him to forget all the troubles of his daily round.

Contrary to popular opinion aquarium keeping is not an expensive hobby (see page 7) Fishes can be kept in such places as flats where other pets are banned. Fishes do not make a noise and annoy the neighbours, do not bite or scratch the baby, do not throw seed and feathers all over the best carpet, do not chew your slippers nor attack the postman !

They are something different - they come from the most exotic parts of the world. A little care given to their wellbeing and they will repay you by presenting you with several dozen baby fishes.

Don't be afraid to ask any of our stewards for advice if you wish to start up in this most fascinating of hobbies, or drop in on one of our meetings (see page 2) and meet others interested in fishes who will be only too glad to give you advice and encouragement.

Fishes do occasionally get sick but there are now-a-days scientific cures for all the serious diseases.

Try the hobby - I am confident that you will not regret it !

S.L.A.D.A.S. DIARY

JUNE 1 Visit to the London Zoo Aquarium and conducted tour behind the scenes. (Fully booked)

SEPTEMBER 7 Visit to the new Brighton Aquarium and Dolphinarium (Booking starts June 1)

INTER.-CLUB MEETINGS :

EAST LONDON May 16 classes, A.V. Tooth-carps, Danios Rasboras & Minnows, Male Guppy, Cichlid.

THURROCK OCTOBER 6 A.O.V. Tropical, Mollies, Characins, Coldwater.

BASILDON this meeting will be held at Thurrock, date to be announced. A.O.V. Labyrinths, Swordtails, Catfish.

SOUTHEND, LEIGH AND DISTRICT AQUARIST SOCIETY

AN INTRODUCTION

(reprinted, by Anon from a Journal in the 1940's)

Early in 1946 five enthusiastic aquarists (four of which had been on the committee of the Southend Aquarist Society before the War) decided that a local Society to cater for the requirements of interested persons was necessary. Thus was born one of the most successful institutions of it's kind in the country, and today one can look back on many years of continued advance and enterprise.

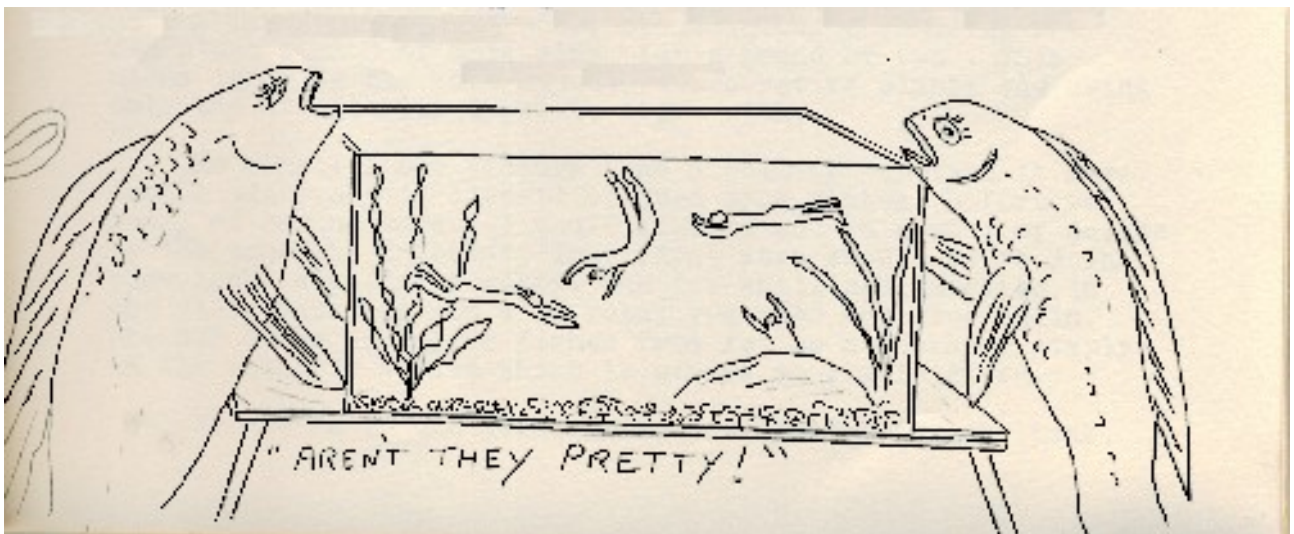
Membership is open to anyone interested in Pondkeeping, and Aquaria. The social requirements of members are fully catered for in the form of coach excursions, social evenings, etc, and in addition there are two monthly meetings devoted to the instructional side of cur hobby.

In addition to issuing this Bi-Monthly JOURNAL, the Society has a library of books which are available to members. It enjoys the privilege of a hard working and experienced Committee, a Committee which is consistently seeking new methods to assist members and enhance their interests.

Periodical sales of members surplus stock and apparatus are very enthusiastically attended, and another popular feature is the series of lectures of supplemented by the Society's extensive collection slides.

Being affiliated to the Federation of British Aquarist Societies members enjoy the manifold benefits which are derived from such an association.

We enjoin the residents of Southend-On-Sea and District to foster the interests of Southend, Leigh and District Aquarist Society as an important cultural institution by drawing the attention of their friends to the benefits which can be enjoy- by it's members. The Hon: Secretary will be pleased to give any information required.



HOW MUCH WILL IT COST ME?

by H.A. Giles.(reprint 1940`s)

It is in fear and trembling that I set out to answer this - the question on the lips of every would be aquarist, young and old.

The first item on our list, of course, is a tank. Now, these are made in so many sizes and shapes that one hesitates to quote a set price. It would be best, I think, to take a 24" X 12" X 12"- aquarium, which we have come to look upon as a standard type. These may be bought for prices ranging between £3 and £4.

Next, a heater is required, and these may be found ranging from 10/- to £1. Now we come to the thermostat, which, to the benefit of the uninitiated, is merely an automatic control that switches the heater on and off at any decided temperature. The cost of a thermostat is somewhere between 15 and 25 shillings.

Again a lid or top light is necessary if one is to have electric light above the tank. There are many of these on the market at all sorts of prices but they average between 30/ and 40/-.

Of course, a thermometer is a real necessity, and may be bought for a few shillings..

So much for the tank and fittings. It only remains now to furnish the aquarium

You will need sand or compost for the bottom some 14 pounds should be enough and will only cost a few shillings. The plants for your indoor garden, and do please call them plants - not weeds.. By judicious purchasing one can plant a tank of this size for a pound or two. This means ignoring the more expensive decorative plants and using only its utilitarian types to start ----- with.

To complete our picture (and a well set up tank is more than a picture it lives). We need some fishes. Before we I would like to put in a word of advice to the would be aquarist. Your first step should be to join your local aquarist society. The few shillings invested in a years subscription will repay you over and over again. Whether it be in buying fishes from fellow members or simply in the valuable advice which is always so gladly given.

Returning to the question of some fishes for our tank,

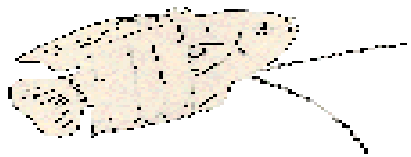
it will be obvious to even the youngest beginner that one cannot set a fixed price for populating a 24" X 12" X 12" aquarium. There are specimens to be had from 1/6d to £5 or even higher, and the choice must be left to the taste – and pocket - of the proud aquarist.

One thing to remember here is to start with some of the cheaper varieties until you are certain the tank is a "going concern", then you can add various gems to your collection, when circumstances permit.

It will be seen from the above that -we can set up an aquarium for about £8 to £10 but this is only a very average figure as there are so many ways of making it cheaper – or dearer - that one could go on for ever. There are in the shops resplendent chromium plated tanks with very elaborate stands, and gadgets, -which may be purchased for prices ranging up to £100 if one so desires.

I have found in my experience that fishes are not at all snobbish, and are just as happy in a humble tank as their relations in the chromium one - it is the conditions inside their home which matter most to them.

GOURAMIS



by N.Sellars.

For many years these timid and shy little creatures have been among the favourite fishes of both beginners and experienced aquarists.

One interesting feature of these fishes is the length of the second rays of the ventral fins which extend as a thread-like projection in a manner reminiscent of the "feelers" of insects. For a long time it was thought both by experts and amateurs alike that these appendages did actually serve as feelers, enabling the fish to avoid obstructions in their environment.

However, as a result of scientific investigations, it has been proved that the extended ventral fins are used solely as taste organs and under microscopic examination the taste buds become visible - hence they are really

extended tongues.

The biological necessity for these appendages can be appreciated if one considers the rather murky waters of India, Burma, and Indo-china in which the fishes live in nature enabling them to seek out their food by "touch" where visibility is impaired.

This use of the ventrals as "tongues" can often be witnessed in the aquarium when the fishes are offered food which is new to them - they will first touch it with their feelers, then take a bite if it is to their liking. Of course when they become accustomed to the food they will dispense with the tasting.

MARBLE: ANGELS AND BEYOND

by P.F. Capon

The AQUARIUM for January contains a report on a totally new variety of that old favourite the Angel fish.

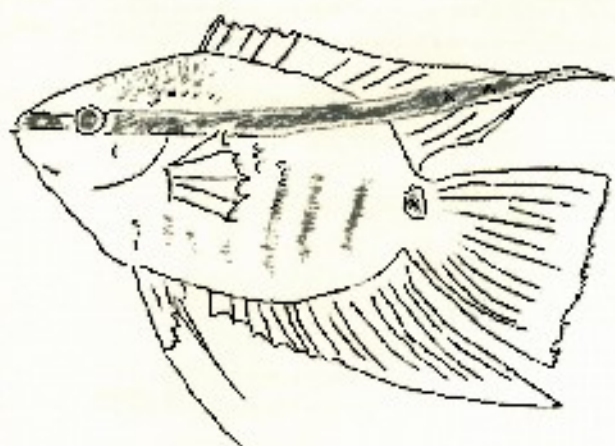
This new variety is called Marbled by its inventor Chuck Ash of San Bernardino California. He developed the strain from a single female that turned up in a brood. This female showed a large black "V" on its side instead of the usual bars, from this sport after much hard work Chuck has produced the Marble Angel. This variety has as its name suggests a black marble pattern on a silver background. If the photos in the "Aquarium" are anything to go by it really is a startling and beautiful addition to the growing number of types of angel now available.

Looking at the photos the thing that interests me is the lemon areas present on several of the fishes, mainly on the back but also on the dorsal fin. Maybe I am sticking my neck out but I predict that before long we will be seeing all lemon angels and eventually many other colours.

All the new varieties of fishes seem to come from America or Europe and never Britain, why? I can not think that sports never appear in British tanks.

Next time you spawn any fishes look out for the different individual, look after it if it is attractive you may become famous throughout the aquarium world as the discoverer of a glorious new strain of fish. Not to mention all that loot you have to pay to H.M. Treasury, if you make a financial success of the new fish.

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DOG FISH

by D.W. Roberts. F.Z.S.

In the January issue of this JOURNAL I was interested in the fantastic statement snipped from a dictionary that an octopus is an eight armed cephalopod, cog fish. A dog fish is of course an entirely different creature to an octopus.

Early in my studies of fish pathology I was, as it happens, required to dissect for photography a dog fish.

Various species of these small sharks known as dog fish are found in the seas around the British Isles. One of the commonest, the lesser spotted dog fish or Rough Hound (*Scyllium canicular*), became my study. Like other dog fish it justifies its name by traveling in packs and hunting by smell. It usually lives near the sea floor, and feeds largely on crabs, hermit crabs, and other crustaceans, though it often devours shell fish or small fishes, and will take most kinds of animal food.

The length of a well grown Rough Hound is about two feet. It's slender, sinister looking body, well shaped for passage through the water., tapers from the front ;and though it shows no suddens differences in girth, there may be recognized in it a head trunk and tail. The hind limit of the head being marked, roughly by an opening behind the eye known as the spiracle, and that of the trunk by the vent.

The head is flat with a blunt pointed snout, a wide crescent shaped mouth on the lower side, a pair of round nostrils in front of the mouth and connected with it by oronasal grooves, and at the sides are two slit like eyes. Immediately behind each eye is a small round opening, the spiracle, while further back and more towards the ventral side is a row of slits which are the gill clefts. The spiracle and the gill clefts open internally into the pharynx.

Behind the head the body gradually changes its shape, becoming flattened from side to side instead of from top to bottom.

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CLUB NEWS

INTER-CLUB MEETING AT SOUTHEND MARCH. 18

TABLE SHOW

BARBS

1...K Baker..... East London

- 2...P. Campkin.....East London.
3. W. Corby.....East London.
- 4..D. Edwards.Southend.

PLATYS

- 1...L.R. Barker.....East London.
- 2...J. Katton.....Thurrock.
- 3..F. VickersEast London.
- 4..G. Green.....East London.

FIGHTERS

- 1...P.F. Capon.....Southend.
- 2..D. Durrant.....Thurrock.
- 3..D.Durrant.....Thurrock.
- 4..F-Vickers.....East London.

The judges were Mr Creed for the barbs (fifty entries), Mr Stewart for the Platys (twenty five entries) and Mr Forrest for the Fighters (seventeen entries). Thank you gentlemen for undertaking the journey to Southend to judge our show, even though we did not do too well.

The meeting was attended by a number of members from Thurrock, East London, and Southend. No members appeared from Basildon and we fear that this club has disbanded.

We should also like to thank all our willing helpers in particular Mesdames Mitchell, Morris and Orford for their help with the refreshments.

Whilst the judging was progressing we were entertained by a most informative talk by Gerald Jennings on Marine Fishkeeping. Gerald told us that this branch of the hobby is by no means as expensive as many would have us believe in fact a tank of fishes should cost very little more than a comparable tank of ordinary tropicals. He told us of the semi-natural system using a modified form of under-gravel filtration, and showed us slides of tanks using this system and the plants that could be grown in this type of tank. He also spoke of partial successes in breeding.

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An interesting point that Gerald raised was that the corrosion products of iron and aluminum were not poisonous to marine fishes, the only real reason for protecting these metals from sea water was to stop them rotting away.

Thanks are due to Ray Nield for saving the day and going back home to get his projector so that Mr Jennings could show us his interesting slides.

Meeting April 1

The highlight of the evening was a quiz, the results of which were that team number four under

Dave Edwards won with 21 points, team number one under Dave Cheswright and team number three under Bob Passmore came second with 20 points whilst team number two came third in spite of Bob Wallings gallant efforts to brow-beat the quiz master.
(Honest it was just the way the questions turned up I didn't pick out the worst ones on purpose, Ed)

TABLE SHOW

DANIOS. RASBORAS. MOUNTAIN MINOWS

1. .D, Cheswright.....Harlequin.....72½ pts
2. .R.D.Orford.....*kalachroma*.....71¾ pts
- 3...D-Edwards,.....mountain minnow..71½ pts
- 4.. R. Wallings..... *kalachroma*.....70 pts

The show was judged by Ed Nicoll from Thurrock,

The raffle of a pair of *velifera* mollies was won by Norman Sellers

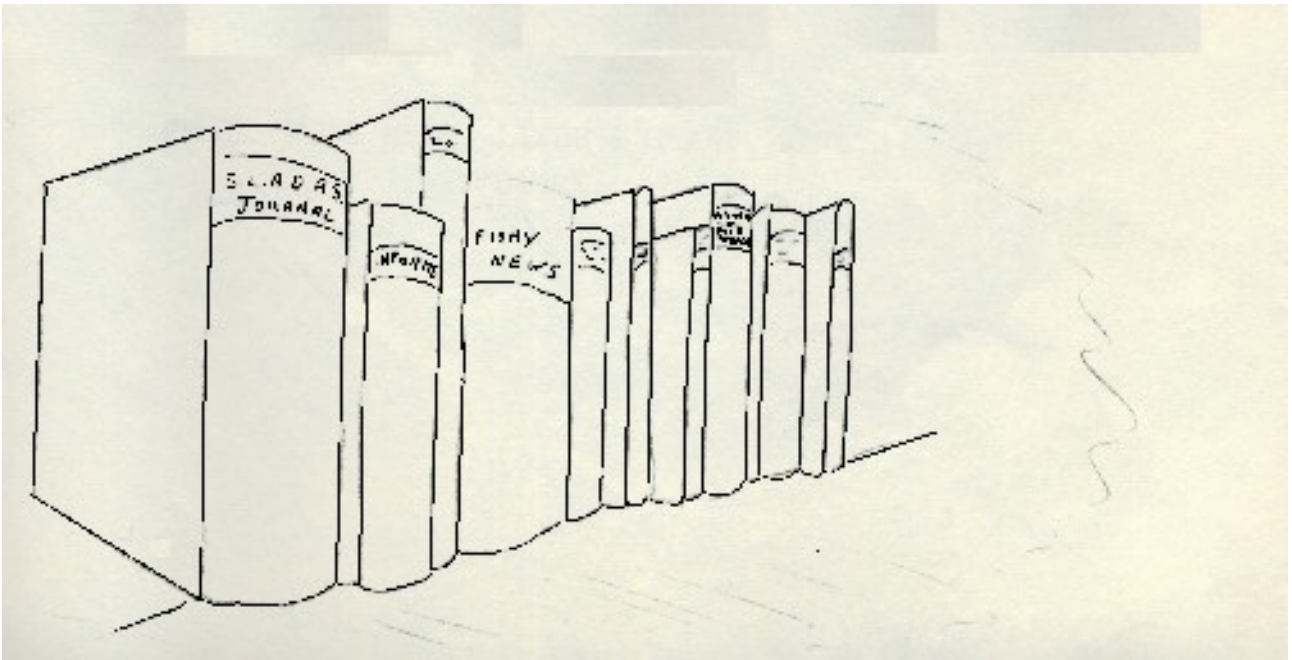
TABLE SHOW POSITIONS

(as of April 1)

R. Wallings	7 points	D. Little.....	4 points
P.F. Capon.....	7 points	D. Cheswright....	4 points
R.D .Orford.....	6 points	L. Curtis ...	2 points
D.Edwards.....	5 points	T. Clark.....	1 point
K.Ives.....	4 points	R. Parker.....	1 point
S.Norris.....	4 points	A. Bobbin.....	1 point

CONGRATULATIONS

S.L.A.D.A.S. members and officers would like to congratulate Mr & Mrs Bob Wallings on the recent addition to their family.



EXCHANGE REVIEWS

by Jackie Norris

Yet another bulletin to add to our exchange list is the **O'QUARIST**, published by the Oklahoma City A/S. Plenty of good material here I had a good chuckle over Bill Fisher's article "The Day The Leaks Came" (Oct68) Contrary to belief ours is not the only fishy home to have leaking tank trouble, don't you always think that it never happens to anyone else, only yourself? Bill is out to tell you that it's the same tale the world over. What rotten luck - four leaks in a row I'm glad to say that everything worked out O.K. in the end.

The December **PetFish Monthly** has an article on progress with platys by Charles Wright. This gentleman first wrote of his experiences with platys in 1949 when only four varieties were available, compared -with the ten varieties seen today. The "Beginners Guide to Fishkeeping" this month deals -with aquarium electrics.

A nice article on Gouramis by R.C.Mills appears in the January '69 **Aquarist**, and how about this? A Mr Powell managed to breed Glass Catfish within six weeks of setting up his first tank. This gentleman with the pioneering spirit only attempted to breed the cats because according to all the books they had never been bred in captivity, what a wonderful way to begin breeding fish.

Larry Hume (Calgary A/S) writes an article in each issue of the **Calquarium** under the heading "Do You Know". In the January '69 bulletin he writes that it occurs to him that he has spawned his Severums ten times, not very sucessfully, but the story of the spawnings is well worth reading. In the December issue, Jerry Minks gives an outline on some of the knife fishes, nice to see something on the more unusual fishes. Mr Minks writes an article in the Oct '68 issue entitled "Swordtails for Beginners" - very informative for the complete amateur.

For the Fighter Fancier we have a whole magazine devoted to the Siamese Fighting Fish and issued by the International

Betta Congress. Very good articles to help you obtain "*Betta splendens*". The title of the magazine is Flare.

I've said it before, and I shall say it again, I like **Anchor** of the San Francisco A/S . I know Peter reprints a few of anchors articles, as do many of our other exchanges, so probably any stories I could suggest will more than likely appear in their entirety in our own JOURNAL, so all I can say is borrow a copy of Anchor from our library and see for yourself what a first class bulletin it is.

There's a smashing story in the December '68 bulletin entitled "The Yellow Sombrero. (*Sombrero auratus*)" by Mr J- Lowndes Snr., it's all about an amateur boxer picked for the Mexican Olympic Games, and somewhat facetiously asked by a friend to obtain one of these rare specimens for his tank. It can't be true, but it's fishey !

I always like to read Jim Kelly's "Transatlantic Topics" in **PetFish Monthly**, he reckons.... "The latest U.S.A. craze for fishkeepers..... stick picture postcards round your fish bowl then as the gold fish swim round and round they will think they are really going places." Those horrible goldfish bowls again, our editor has a distinct aversion to them !

How about the gentleman from Brockley , South London, who has an angel with what appears to be "pectoral fin-like appendages" growing from the base of it's dorsal; and the pair of Discus belonging to a Battersea fishkeeper. Spawning took place, with the eggs being deposited on the tank's heater. A rapid change of heater saved the eggs from being poached, and I'm happy to say that hatching was achieved.

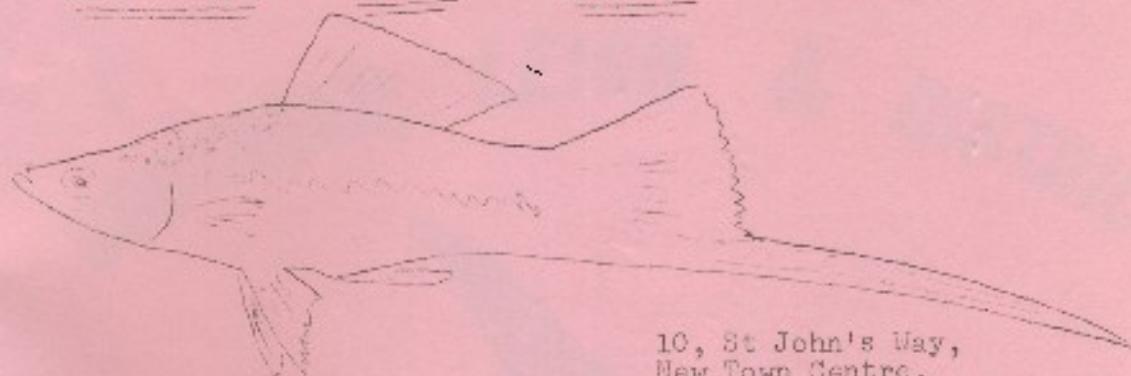
NOTE, TO EXCHANGE EDITORS

Due to the long shore mens strike in the U.S.A. Copies of this JOURNAL may have been late arriving. We have noticed severe delays in magazines from the States for instance the **O'Q.UARIST** arrived from Oklahoma wishing us a Merry Christmas on the 19th of April !

All exchanges are welcome and our Journal is posted to all societies from whom exchanges have been received how long they take on the journey is in the hands of both the Postal Authorities.

Keep those exchanges coming folks !

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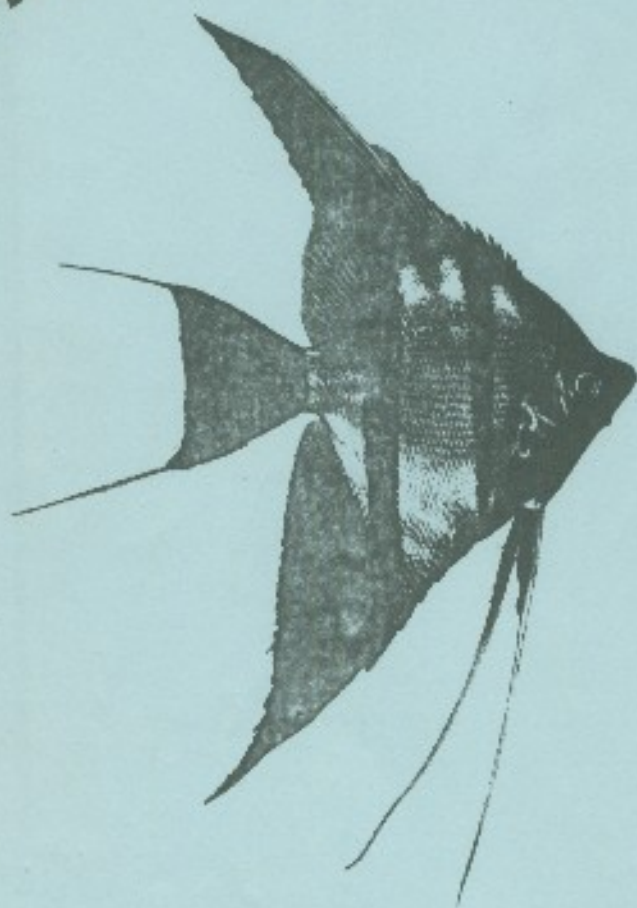
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AQUARIST SOCIETY.

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THE SOUTHEND. LEIGH AND DISTRICT AQUARIST SOCIETY
(founded 1938 or before)

The Society meets every first and third Tuesday in each month at 8.00 p.m. At:-

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WESTCLIFF-ON-SEA
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**BI-MONTHLY JOURNAL Number 27
JULY 1969**

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S.L.A.D.A.S. IS THIRTY-ONE THIS JOURNAL IS TWENTY-ONE

OFFICERS FOR 1969

PRESIDENT

D. Edwards ,
36, Grafton Road,
Canvey Island,
Essex.
Telephone Canvey 3164.

VICE-PRESIDENT

R. Passmore
39, Grafton Road
Canvey Island
Essex

HON: SECRETARY

R. Wallings
93, Salisbury Avenue
Westcliff-On-Sea,
Essex.

HON:TREASURER

D.M. Cheswright
2 Cedar Avenue
Wickford
Essex
Telephone Wickford 2531

LIBRARIAN

A. Huxter
43, Park Lane
Southend-On-Sea
Essex.
Telephone; Southend 66148

JOURNAL EDITOR

P.F. Capon
9, Locarno Avenue
Runwell
Wickford
Essex

ASSISTANT EDITOR

R. D. Orford
8, Blenheim Chase
Leigh-On-Sea
Essex
Telephone Southend 74542

PUBLIC RELATIONS OFFICER

D. Finch
165, Bull Lane
Rayleigh
Essex

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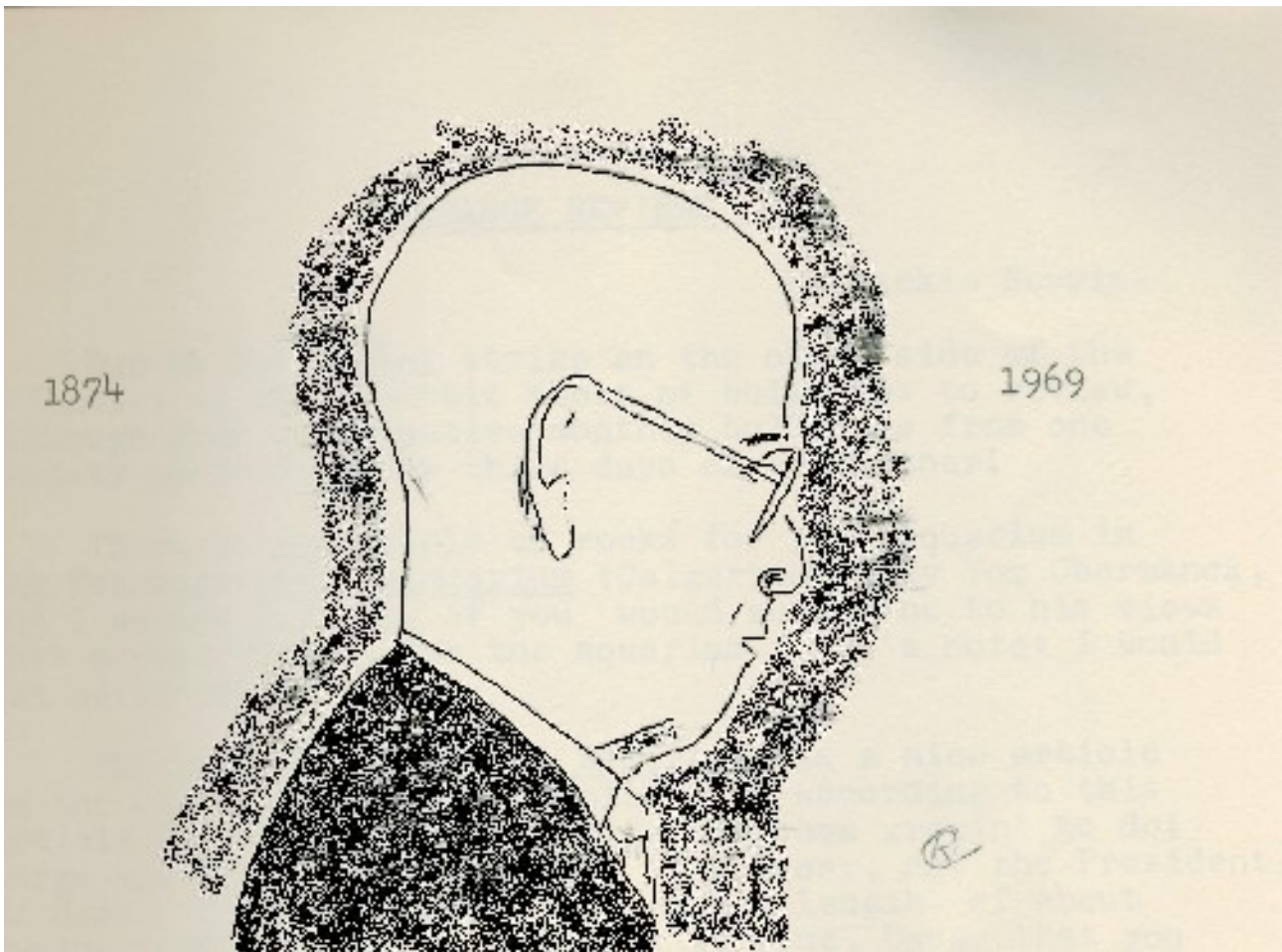
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WILLIAM THORNTON INNES

Bill Innes passed away on the 27th of February 1969 at his home at 1825, North Park Avenue, Philadelphia. With Bill's death the aquarium world has lost a great aquarist and aquarium publisher.

Bill was born of a quaker mother and southern father on the 2nd of February 1874. On finishing his schooling, he was apprenticed to a printer and on completion of this apprenticeship he joined his father in his printing business.

W.T.I.'s interest in fish was first aroused at his grandmother's house which backed onto the Delaware river. The fishes in the river fascinated him but he was never able to catch any. Bill's first aquarium was made from a glass bowl that his mother used to cover wax fruit with. He only kept water snails but it was his first aquarium.

His interest blossomed forth when he was invited to a meeting of the Philadelphia Aquarium Society. In 1906 Bill met Herman T. Wolf who had written a book entitled "Goldfish Breeds and other Aquarium Fishes". The manuscript of this book had been rejected by several publishers and Wolf was threatening to destroy it, Innes agreed to print it but it took ten years to sell a thousand copies at a loss of a thousand dollars.

(continued on. Page 20)

EXCHANGE REVIEWS

by Jackie Norris,,

Due to the postal strike on the other side of the Atlantic, we are a little short of bulletins to review, although four consecutive monthly bulletins from one society arrived within three days of each other !

There is an article on rocks for your aquarium in the February 1969 **Calquarium** (Calgary A/S') by Tom Chermisnok, but I wonder how many of you would subscribe to his views that marble is good for the aquarium. (Ed's notes I would not advise it at all!)

The May edition of the **Aquarist** has a nice article on the Oscar, (*Astronotus ocellatus*). According to this article Mr President, your Oscar has some growin' to do! Large and lovely though he is, (the Oscar, not the President). Mr Hems reckons that they can reach a length of about twelve inches in the aquarium. Is it true, Dave; that you -are considering moving yours into an eight foot tank?

Many o-f the American publications seem to be running articles on killifishes, or Tooth Carps.. Perhaps this is because the American Killifish Association have released a series of articles to the U.S. bulletins. As this group is among my favourites . I have had a lot of reading to do of late. To start you off., may I suggest that before you begin the A.K.A.'S articles, that you read "Killifish in General" by Ella PJttman in January '69's **Colorado Aquarist** This will give you all the gen . and perhaps spur you on to try some of these fishes for yourselves. In the December issue of this bulletin there is the first of the Associations articles on *Aphyosemion nigeranium*. by George Maier. Robert Yacano writes the second article, on *Aphyosemion bivittatum* in the February issue.

Do you have trouble pronouncing all those scientific names? There is a reprint from the **Tropical Aquarist** (Nov '68) in the December **O`quarist**. Genevieve Vince explains it all, why and how, and she adds a short list of rules re the scientific pronunciations. I am making a copy of this article for myself.

The Cleveland A/S journal, the **Wet Thunb**, has a useful article by Evelyn Cohen of the Detroit Society, entitled "Aquarium Plants, types and uses". I found this piece of immense interest as I'm not much up on plants, and in fact have been known to refer to them as "weeds",

(continued on page 20)



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WINNERS





THE JUDGING



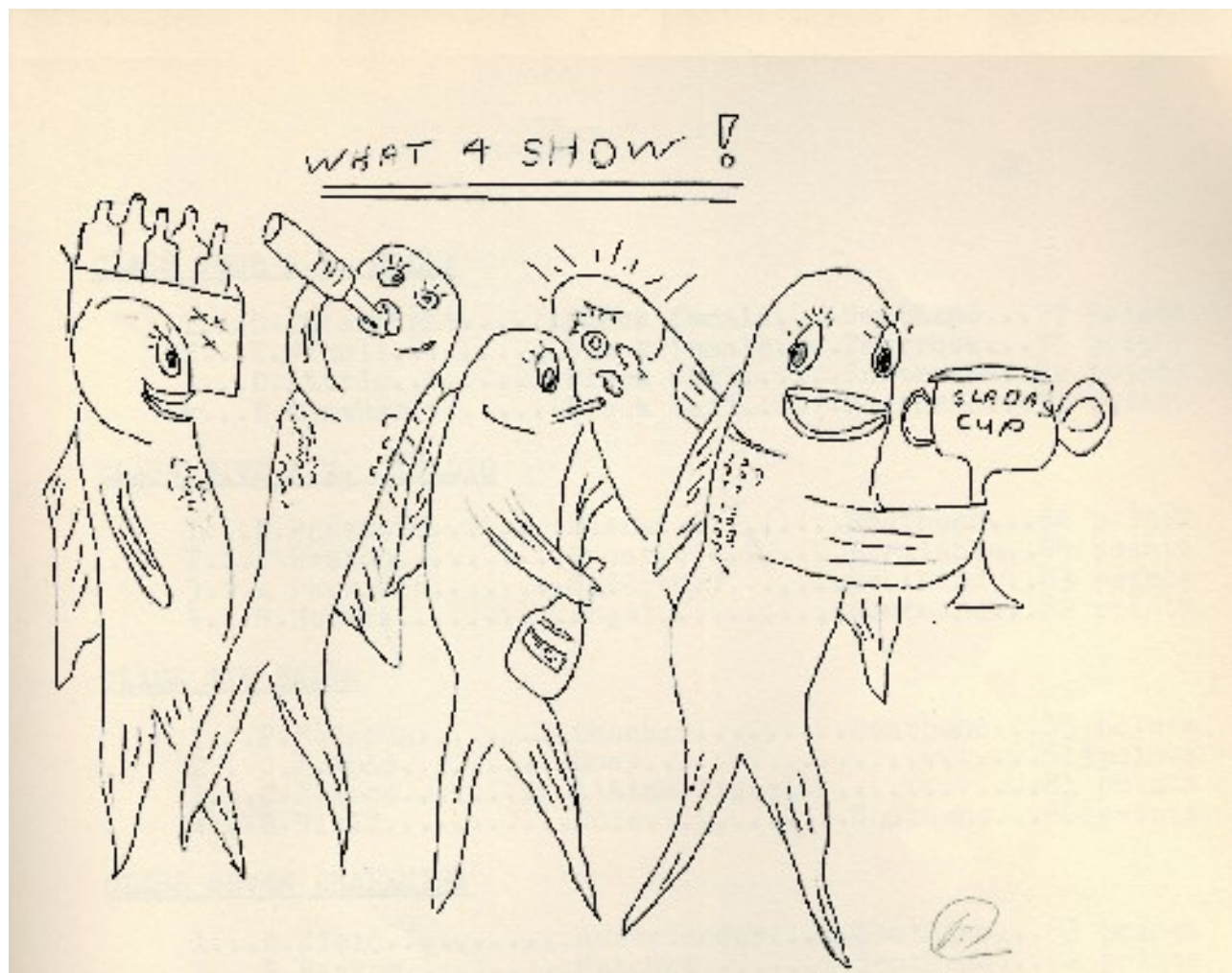
THE TROPHIES





THE VISITORS





S.L.A.D.A.S OPEN SHOW RESULTS

CLASS ONE A.V. GUPPY

1...S. Norris.....	Southend.....	80 points
2...J. Norris.....	Southend.....	79 points
3...D. Durrant.....	Thurrock.....	77 points
4...J. Norris.....	Southend.....	76 points

CLASS TWO AV. PLATY

1..R.Wallings.....red.....	Southend.....	81 points
2.. D. Durrant. <i>variatus</i>	Thurrock.....	78 points
3.. D..Durrant... .. <i>variatus</i>	Thurrock.....	77½ points
4.. P.D.O'Brien. ... Wagtail..	Thurrock.....	77 points

CLASS THREE A.V. SWORDTAIL

!...P.D.O'Brien.....red.....	Thurrock.....	75½ points
2.. C. Walford.....red.		75 points
3...D. Larder.....red.....		74 points
4...D.Edwards,red simpson	Southend	73 points

CLASS FOUR A.V. MOLLY

1..D.Cheswright.....	black female.....	Southend.....	77 points
2.. E.Nicoll.	black- female.. .	Thurrock.. ,.....	75 points
3..D.Little.....	Black Sail.....	Southend.....	72 points
4..R.Bloxham.....	Black Sail.. .	Southend.. .	71 points

CLASS FIVE A.V. C1CHL1D

1..R. Passmore.....	Discus.....	Southend.....	86 points
2..J.Heaton.....	Oscar.....	Freelance.....	84 points
3. R. Passmore.....	<i>Severum</i>	Southend ..	83 points
4..S. Norris.....	Angel.....	Southend.,.....	82 points

CLASS SIX BARBS

1..P.F. Capon.....	Checker.....	Southend.....	83 points
2. .C.J. Wood.....	Rosy.....		81 points
4. R. Nield	Kola.	Southend.. .	80½ points

CLASS SEVEN CHARACINS

1.. R.Nield.....	Headstander.... ,.....	Southend.. .	83 points
2..R.Parker.....	Hatchet,.....	Southend.....	82 points
3.. ,Mr Kerridge.....	Piranha.....	Harlow... ,.....	81½ points
4.. D. Edwards,.....	<i>N.trifasciatus</i>	Southend.. .	81 points

CLASS EIGHT EGGLAYING TOOTH CARPS

1.. S. Morgan. ,.....	<i>palmaquisti</i>		83 points
2.. D.Durrant.. ...	<i>australe</i> .,.,.	Thurrock.. .	82 points
3.. D.Edwards.....	<i>R. Hartii</i>	Southend,, ..	78 points
4. ..R.Wallings.....	Gularis	Southend.. .	76 points

CLASS NINE DANIO. ,RASBORA, WHITE CLOUD

1....P.D.O'Brien.....	Pearl danio.....	Thurrock.....	79 points
2.. D. Durrant.....	White cloud.. .	Thurrock.. .	78½ points
3....D.ChesvJright.....	<i>Rasbora</i> . ,.....	Southend.. .	78 points
4.. D.Cheswright.. .	Harlequin.....	Southend... ,.....	77½ points

CLASS TEN MALE FIGHTER

1..D. Durrant.....	red.....	Thurrock.....	78 points
2..D.Durrant.....	red.....	Thurrock.....	77 points
3..P.F. Capon.....	red,.....	Southend.....	76 points
4....P.F. Capon.....	black.....	Southend.. .	75 points

CLASS ELEVEN A.O.V. LABYRINTH

1..C. Walford.....Thicklip.....	81 points
2..D. Edwards.....Combtail.....Southend.....	80 points
3..D. Edwards.....Climbing Perch.Southend.. ..	79 points
4..Mrs Hilton.,.....Moonlight.....	78½ points

CLASS TWELVE CORYDORAS CATFISH

1.,E.Nicoll.....Thurrock.....	81 points
2..J. Stamp	80 points
3..P.D. O'Brien.....Thurrock.....	79 points
4..Mr Strudwick.Thurroek.. ..	78 points

CLASS THIRTEEN A.O.V. CATFISH. LOACH.

1..Mr Panton.....Pimlodelia.....	82 points
2..R.Kerridge.....Fire Eel.Harlow.... ..	81 point
3..R.Kendrick.....Otocinclas.....Freelance.	80 points
4..R.Kerridge... ..Weather fish.....	79 point

CLASS FOURTEEN ...A.O.V. TROPICAL

1..R.Kendrick.....Flying Fox.....Freelance.....	81 point
2..D.Cheswight..... <i>Limia ornata</i>Southend.	80 point
3..M.Panton,.....Redtail shark.....	79 point
4..C.Walford.....Aust' Rainbow..... ..	78½ points

CLASS FIFTEEN A.V. COLDWATER

1..Mr Strudwick.....Goldfish.....Thurrock.. ..	84 points
2..L. Mitchell.....Goldfish.....Southend.....	83 points
3..Mr Strudwick.....Goldfish.Thurrock.	81 points
4..Mr Cope.....Goldfish.	76 points

CLASS SIXTEEN BREEDERS EGGLAYERS

1..D. Edwards,..... <i>Bedotia</i> , 3/2/69.....Southend.....	76 points
2..D.Edwards..... <i>P.playfairii</i> , 15/1/69.Southend.....	73 points
3..D.Durrant.....Leeri, 22/12/68.....Thurrock.....	72 points
4..P.F. Capon.....Leeri, 24/7/68.....Southend,.....	68 points

CLASS SEVENTEEN BREEDERS LIVEBEARERS

1..D. Durrant..... <i>Limia vittata</i> 20/9/69.Thurrock.....	73 points
2..L.Cheswright.. ..Blue limia ,10/8/68 Southend.	72 points
3..D. Durrant,.....Liberty molly 13/8/68.Thurrock.....	68 points

CLASS EIGHTEEN FURNISHED AQUARIA

1..E.Nicoll.....	Thurrock.....	53 points
2..T. Booth& R. Nield.....	Southend.....	51 points
3.. P.F. Capon.	Southend.,....	49 points
4.. D. Durrant	Thurrock.....	48½ points

CLASS NINETEEN MARINE

1..J.Clark.....	<i>Blennius phobius</i> ..I.M.S.S.,.....	72 points
2..G.Jennings... ..	Hi-fin goby.....,I.M.S.S.....	71 points
3.. G.Jennings .. .	<i>Gobius microps</i> ...I.M.S.S.....	70½ points
4..R. Nield.....	<i>Scat' argus</i>Southend.....	70 points

The show -was a great success, yes we did make a healthy profit, and appeared to be well received by the general public. Thanks arc due to Bob Passmore as show secretary, Bob Orford, Steve Norris, Ray Nield Ray Bloxham, Ted Bloxham, and Tom Clark who made up the rest of the show committee for putting on such a fine show. Particular mention should be made of Ray Nield, Steve Norris and Don Finch who stayed overnight in the hall to look after the exhibits. Many other people helped in many different ways from the Caretaker to the ladies on the refreshment stand - thank you everyone - !

The judges were Messrs Creed, Nutt, and Tomkins - thank you for giving your time gentlemen

CLUB NEWS

Meeting April 15

CICHLID TABLE SHOW

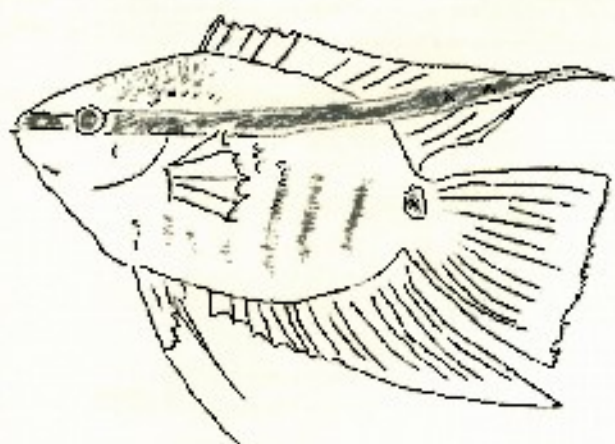
1..D. Edwards	Blue Acara.
2..E. Booth.....	Ortmani
3. .R.Nield.....	Convict.
4..E,Booth.....	Jewel.

Bob Wallings judged this table show.

The raffle this evening was won by;-

- 1..D.Little.....pair of *playfairii*
- 2..MrMarkwick....pair of angels.
- 3..Chris Cheswright..pair of angels.
- 4..E.Russet..... bag of plants.
- 5.,D.Finch.....pair of angels.

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Meeting May 6

Even though he is preparing to move Michael Willis came along to give us a talk: on Tooth Carps, we know you must be busy Michael so thanks for sparing the club a little of your valuable time.

MINI TANK TABLE SHOW

- 1...R. Orford.
- 2...R. Orford.
- 3...E. Russel
- 3...D. Little (joint third)
- 4...A. Bobbin

The judge was Don Finch who remarked upon Tony Bobbin's entry, which was a real miniature tank on a stand, it must have taken a great deal of effort to make.

TOOTH CARP TABLE SHOW

- 1...D.Edwards, ...,*Playfairii*
- 2...D.Cheswright.....*nigeranium*
- 3..,D.Cheswrighto*playfairii*
- 4.. R.Wallings.*Aphanius sophiae*

The judge was Bob Passmore,
The raffle was won by:-

- 1...Harry Usedon.....pair *nigeranium*
- 2...Bob Scott,.....pair of *playfairii*
- 3...Elizabeth Russel,.....cork bark and rocks.
- 4...Mr Harrington.....rocks.

INTER-CLUB MEETING AT EAST LONDON MAY 16

DANIO, RASBORA, WHITE CLOUD.

- 1...R. Wallings,.....Southend.
- 2...L.Mitchel.....Southend.
- 3..Mr Corby.....East London.
- 4...G. Green.....East London.

CICHLIDS

- 1...Mr Corby.....East London.
- 2...R. Passmore.....Southend.
- 3...D. Edv'ardsSouthend.
- 4..,R. Nield.....Southend

MALE GUPPY

- 1...S. Norris.....Southend.
2. ...J. Norris.....Southend,
- 3...S.Morris,,.....Southend.
4. .Mr Sweeting ,.....East London,

TOOTH CARPS

1. .,W. Baker.....East London.
2. ...E.Niccol.Thurrock
- 3.....R.WallingsSouthend.
- 4.. .D. EdwardsSouthend.

The judges were Messrs Baker and Stewart,

During the evening we were entertained to a talk on egglayers by Frank Tomkins of the F.B.A.S. additional prizes for first place winders were donated by Guy Barrington of Chadwell Aquaria.

The points gained by the Societies for this show were:-

Thurrock 39 .East London 12, and Southend 25. This gives the total points at this stage as Thurrock 11, East London 29, and Southend 30

Meeting May 20

Your editor gave a talk this evening on Labyrinths, concentrating on the fighters in particular. One point that I would like to stress here is that when I spoke of the use of copper for curing diseases such as velvet I was speaking about fighters specifically. Copper will KILL many other types of fish and is to be avoided like the plague. Barbs for instance are very sensitive to copper I should know I have tried it and KILLED them !

TABLE SHOW LABYRINTHS

- 1...P.F. Capon.....thicklips.....82 points
- 2...P.F .Capon.....black fighter.....81 points
- 3...R.Wallings.....kissing gourami.....79 points
- 4...R. Wallings.....giant gourami.....78 points

The show was judged by Dave Cheswright.

The raffle winners were:-

- 1... Mr Russel.....Kissing gouramis
- 2... Ray Bloxham...show tank.
- 3.. Don Finch.....Opalines.
- 4..E. Russel.....Giant Gouramis
- 5..Lawrence Mitchell...Thicklips..
- 6...Mr Schwarz.....fighter

Meeting June 2.

The highlight of this evening was the auction when many fish changed hands.

TABLE SHOW PAIRS.

- 1..R.Bloxham.....Dwarf gouramis74½ points
- 2..Mr Upton.....Dwarf Gouramis.....,74, points
- 3...E.Russel.....stolicza barbs.....73¾ points
- 4...D.Little.....Mollies73½ points

The judge for this show was Ed Nicoll from Thurrock.

The raffle was won by:-

- 1..Les Smith.....bow front plastic aquarium
- 2..Bob Scott.....thermostat.
- 3..Steve Norris.....heater.
- 4..Jackie Norris,.....bag of daphnia.
- 5...Nobby Clark... ..bag of daphnia.

Meeting June 17

A film show on various subjects from fish to lions.

The raffle was won by:-

- 1...Jeremy Noad.....Bark.
- 2...Chris Cheswright.....*australe*.
- 3...Bob Waitings.....Bark,
- 4...Ian King..... pair *palmeri*
- 5..Ray Nield.....bark,

TABLE SHOW POSITIONS

as of June 17

R. Wallings.....17 pts	K. Ives.....4 pts
D.Edwards.....16 pts	R. Nield.....3 pts
P.F. Capon.....,14 pts	J. Norris.....3 pts
R.D. Orford.....13 pts	L. Mitchell.....3 points
S. Norris.....10 pts	R. Passmore.....3 pts
D.Cheswright..... 9 pts	M. Upton.....3 pts
D.Little.,.....7 pts	A. Bobbin.....2 pts
E .Booth..... 4 pts	T. Clark,..... 1 pt
R. Bloxham4 pts	R. Parker.....1 pt
E.Russel..... 4 pts	L.Curtis.....2 pts

SHOW JARS To comply with the F.B.A.S. tall sweet jars will no longer be acceptable for table shows

COMMITTEE MEETING REPORTS

Meeting: 24th April at 163A, London Road, Westcliff.

Present:- President 9 Secretary, Treasurer, Bob Passmore, Peter Capon, Don Finch Ray Nield, Laurence Mitchell and Ted Bloxham. Guests Mr & Mrs Steve Norris. Appologies from Bob Orford, and Alan Huxter.

Arrangements were made for the 'forthcoming meetings were made. The Secretary was asked to approach E.K.Cole (Ekco) with a view to using their hall for our Social evening in December. Bob Passmore reported on the progress of the show committee.

Meeting on May 30 at 165, Bull Lane Rayleigh.

Present.-President, Treasurer, Secretary, Lawrence Mitchell, Ray Nield5 Ted Bloxham, Peter Capon, and Don Finch- Guests Mr and Mrs Steve Morris. Appologies from Bob Passmore, Bob Orford, and Alan Huxter,

The meeting was opened with a vote of appreciation proposed by the President to the Open Show Committee and to all club members for their effort in making the show a success,,

A vote of thanks was proposed on behalf of the show committee to Bob Passmore as show secretary, thanking him for his hard work and to congratulate him on a successful show- The treasurer suggested a letter of thanks be sent to the St John's Ambulance for their being on hand at the show, and also a letter of appreciation be sent to the caretaker of the Municipal Hall. The Treasurer also confirmed that further club badges had been ordered.

Don Finch requested that arrangements be made for the Home Furnished Aquarium competition. The judges for this competition were nominated as Dave Edwards, Lawrence Mitchell and Ray Nield, Don Finch asked for a ruling on the use of tall sweet jars in table shows, it was decided that as from June the 3rd all such jars should be disqualified. The President mentioned that the F.B.A.S. were introducing small tanks 4" X 4" X 6" high and that he would arrange for a supply of these tank frames for use in the Mini-tank table shows.

The committee authorized Ray Nield to spend five pounds on books , and to purchase T.F.H. for the library. Lawrence Mitchell suggested an advanced booking system for the library, Ray Nield suggested a suggestion box for members use. It was also decided to draw members attention to Don Finch's position as P.R.O. should members have any complaints, suggestions or queries. The meeting closed at 12.05 a.m.

WILLIAM THORNTON INNES (continued from page 5)

In 1916 tropical fishes began to be imported into the U.S.A. and W.T.I, suggested to Wolf that they add these to the Goldfish book. Wolf rejected the idea so Bill bought the copyright and rewrote the book entitling it "Goldfish Varieties and Tropical Aquarium Fishes" ; thirty two editions of this book were sold by 1934. After this Innes brought out his now famous "Exotic Aquarium Fishes" which was first printed in May 1935, and is still going strong today.

In 1932 he launched his monthly magazine, the "Aquarium" which is still being published although Bill gave up the editorial chair several years ago to Al Klee.

Bill Innes is no longer with us but his work will live on and aquarists will always remember his name through the fish that was named in his honour -*Hyphessobrycon innesi*

EXCHANGE REVIEWS (continued)

Josephine White, of Newton, Kansas writes in the March edition of **Splash** (Milwaukee A/S) a nice piece on the Emperor tetra.

Do you worry about transporting your fish safely? By the entries on some of our table shows I think that this must be the case with some of us. You can get some advice on how to show your fish and still keep them alive from an article in the February issue of **Anchor** .

S.L.A D.A.S. DIARY

INTER-CLUB MEETING

THURROCK October 6 A.O.V. TROPICAL, MOLLIES ,CHARACINS , COLDWATER.

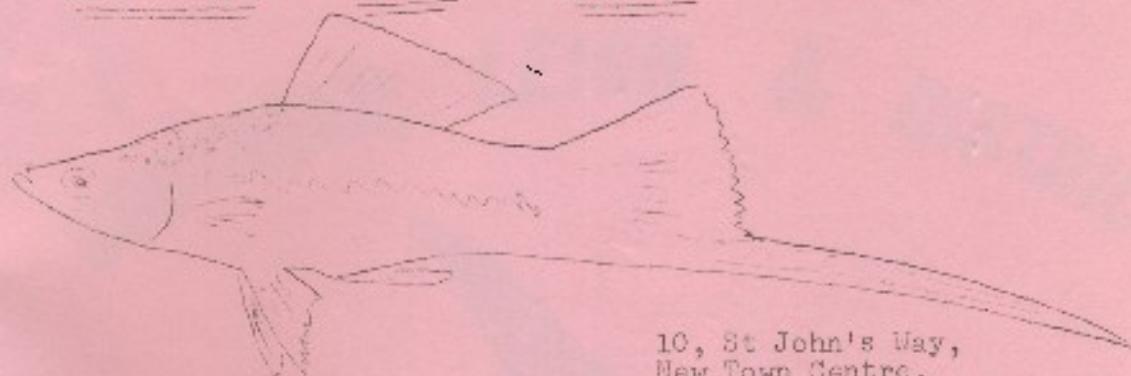
SEPTEMBER 7 Visit to the new Brighton Aquarium and Dolphinarium.

FUTURE ISSUES OF THE JOURNAL

Don't miss our future issues of this Journal which will feature articles on HYDRA, BIOLOGICAL FACTS OF LIFE

It sounds like that needs an "X" certificate), a members experiences with worms, and discussion of white spot

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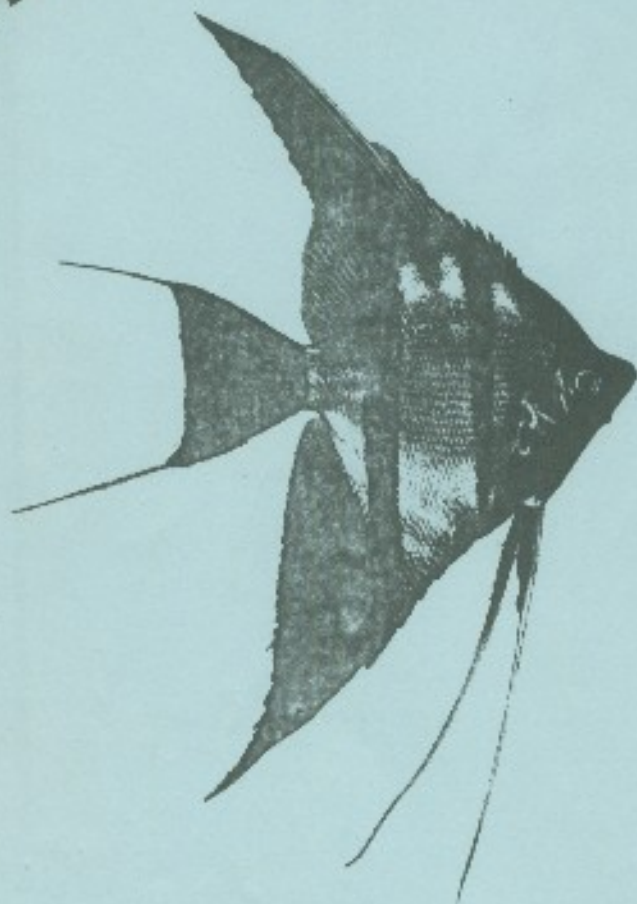
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**BI-MONTHLY JOURNAL Number 28
OCTOBER 1969**

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S.L.A.D.A.S. IS THIRTY-ONE, THE JOURNAL IS TWENTY-ONE

OFFICERS FOR 1969

PRESIDENT

D. Edwards ,
36, Grafton Road,
Canvey Island,
Essex.
Telephone Canvey 3164.

VICE-PRESIDENT

R. Passmore
39, Grafton Road
Canvey Island
Essex

HON: SECRETARY

R. Wallings
93, Salisbury Avenue
Westcliff-On-Sea,
Essex.

HON:TREASURER

D.M. Cheswright
2 Cedar Avenue
Wickford
Essex
Telephone Wickford 2531

LIBRARIAN

A. Huxter
43, Park Lane
Southend-On-Sea
Essex.
Telephone; Southend 66148

JOURNAL EDITOR

P.F. Capon
9, Locarno Avenue
Runwell
Wickford
Essex

ASSISTANT EDITOR

R. D. Orford
8, Blenheim Chase
Leigh-On-Sea
Essex
Telephone Southend 74542

PUBLIC RELATIONS OFFICER

D. Finch
165, Bull Lane
Rayleigh
Essex

REFRESHMENT SECRETARY: E. Bloxham

TABLE SHOW SECRETAY: R. Passmore

COMMITTEE MEMBER L. Mitchell

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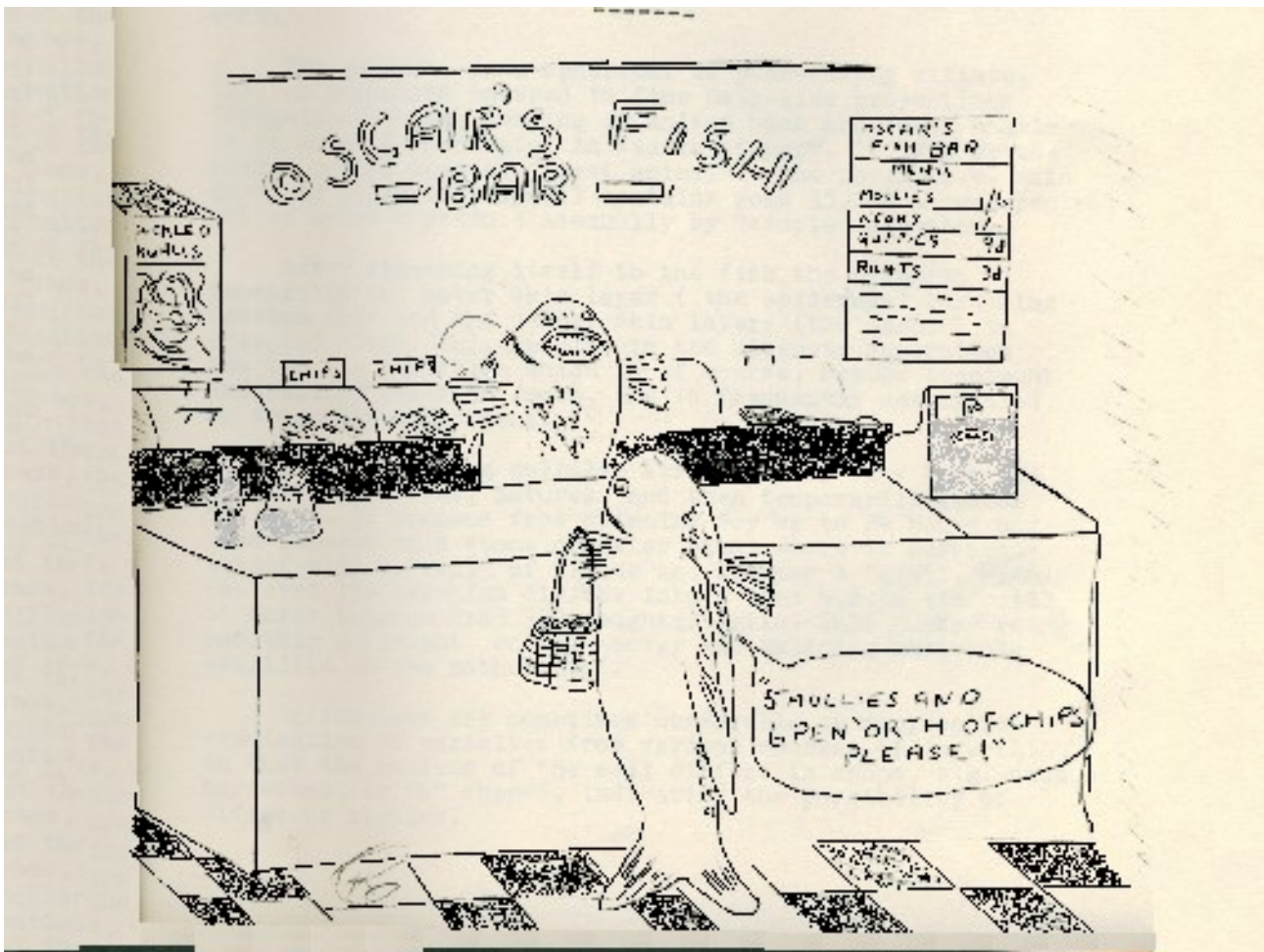
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EDITORIAL

What happened to the September JOURNAL? Well, I got so far behind that rather than attempt to issue the magazine a month behind it's publishing date I thought it better to skip a month and publish in October. This means that our next issue will be due out in December - immediately after our A.G.M.

I have been criticized for not issuing the September JOURNAL - but my critics have- never written a single line for the JOURNAL - if my holding the editorial chair is not to my critics liking may I suggest that they nominate some one else for the post - preferably themselves - I'll be only too pleased to stand down !

November 4 is our A.G.M. please come along and say how you'd like YOUR club run - please do come along and air your views.- don't be frightened that you will have a job forced on you



**ICHTHYOPHTHIRIUS MULTIFILIUS Fouquet 1876
or WHITE SPOT**

by N. Sellers,

The most common and perhaps the most dreaded of all diseases affecting tropical fish is that caused by a unicellular parasite and commonly referred to as white spot. This name denotes the physical appearance produced by the attachment of the parasite to its "host" fish.

It is essential if "we are to guard against its ravages to have a precise knowledge of its life cycle, thus enabling us to take measures to avoid the disease, to notice the first signs of onset, to introduce the necessary treatment to ensure a rapid and permanent cure with minimal residual effects from the disease and the treatment.

The parasite is a spherical or pear-shaped ciliate,, i.e. an organism covered in fine hair-like projections (flagellae) -which, swaying in unison back and forth enable it to move in open water in search of prey. It is a protozoan, a term meaning "first animal" - the phyla (i.e. the main group to which it belongs) contains some 35,000 known species, all of which reproduce asexually by "simple" division.

After attaching itself to the fish the organism penetrates the outer skin layer (the epidermis) tunneling between this and the deeper skin layers (the dermis) in advanced cases. This results in the ultimate separation of the two - a condition which is of course, beyond treatment and rapidly leads to death, and is frequently accompanied by secondary infections.

Feasting on the cellular structures of its host the parasite grows fat, matures, and then temporarily leaves the host. It becomes free swimming for up to 24 hours and then adheres to a stone or water plant where it surrounds itself with a "veil" of tissue and becomes a "cyst", Within the cyst the organism divides into 2 then 4,8,16 etc until it forms between 2 and 300 daughter cells. This number being possibly dependent on the energy and building materials available in the mother cyst»

Differences are sometimes observable on microscopic examination of parasites from various sources of infection, in that the nucleus of the cell differs in shape, e.g. sausage, horseshoe, or "S" shaped, indicating the possibility of different species.

In the initial stages of the disease the growth and multiplication of the parasite, which within the tissues of the fish increases from 0.05 to 0.5 millimeters (50 to 500 microns) is relatively slow, but as the disease advances, accelerates, possibly as a result of the increase in the number of parasites attacking a fish with a progressively weakening resistance.

From the first attack to the first real evidence of the disease is some three weeks. The invading parasite reaches maturity in 10 to 20 days, this time being largely dependant on temperature. From the separation of the mother parasite from the host fish to the opening of her resultant cyst with the release of the free swimming daughter cells takes two to three weeks at normal tank temperatures.

The life-span in the free swimming form is normally 3 to 5 days , though it would appear that a few encysted parasites are able, under suitable disadvantageous conditions, to suspend development and to survive up to 4 weeks. Hence one can only accept with reservation the view that a tank free of fish will necessarily be free from parasites after a few days. Parasites have also been found in a "dormant" state on the gill plates of fishes without the fishes themselves showing outward signs of the disease, the parasites being able to resume normal development under suitable conditions producing an infestation displaying normal characteristics.

It is impractical, at present, to kill the parasite whilst it is still within the tissues of it's host, particularly with chemical medicants, but recently antibiotics, Terramycin in particular, have shown promise in some cases by entering the systemic circulation of the host, apparently killing the parasite. It results in the earlier removal of the parasite from the tissues as well as acting as a prophylactic against secondary infections. However experimental results have been, in general, disappointing and no doubt anti-biotic resistance will be produced in some strains.

The parasite cannot multiply within the fishes body, it must leave and encyst. It can therefore be attacked at two stages :-..1) the mother cell whilst free swimming prior to the cystic stage, and 2) the daughter cell between breaking out of it's cyst and attaching itself to it's host fish.

Occasional conjugations of the free swimming daughter cells have been observed, one cell merging with another, natures way of perpetuating the characteristics of a species, perhaps facilitating hereditary adaptation to new problems.

It is well known that recent outbreaks of white spot are not so susceptible to treatment by previously well established forms of medication.

Different species of fishes vary in susceptibility to "ich", e.g. the characins and carps are very prone to severe attack, cichlids only moderately, and nannostomus and catfish rarely.

Sources of infection are:-

- 1) "Ich" infested fish.
- 2) Infested livefood, plants and stones.
- 3) Tank, pond or tapwater contaminated with cysts or free swimming parasites, nets and other equipment as well as hands also act as carriers.
- 4) True carriers , i.e. fish harbouring parasites but not themselves suffering from the disease.

The preservation of healthy tank conditions and the promotion of good healthy fish is the best guarantee of resistance to disease but the first line of defense should be prevention. This requires careful observation when acquiring new fish, purchase from reliable sources, strict adherence to the rules of isolation of new arrivals in a quarantine tank which should have it's own food supply and equipment. The hands should be carefully washed before moving on to a new tank. or clean equipment. Quarantining should be at least three weeks for tropicals and five weeks for coldwater fishes.

It cannot be too strongly emphasized that the disease is a killer and should be attacked at the earliest possible moment after discovery - one white spot implies the presence of many hundred free swimming daughter cells !

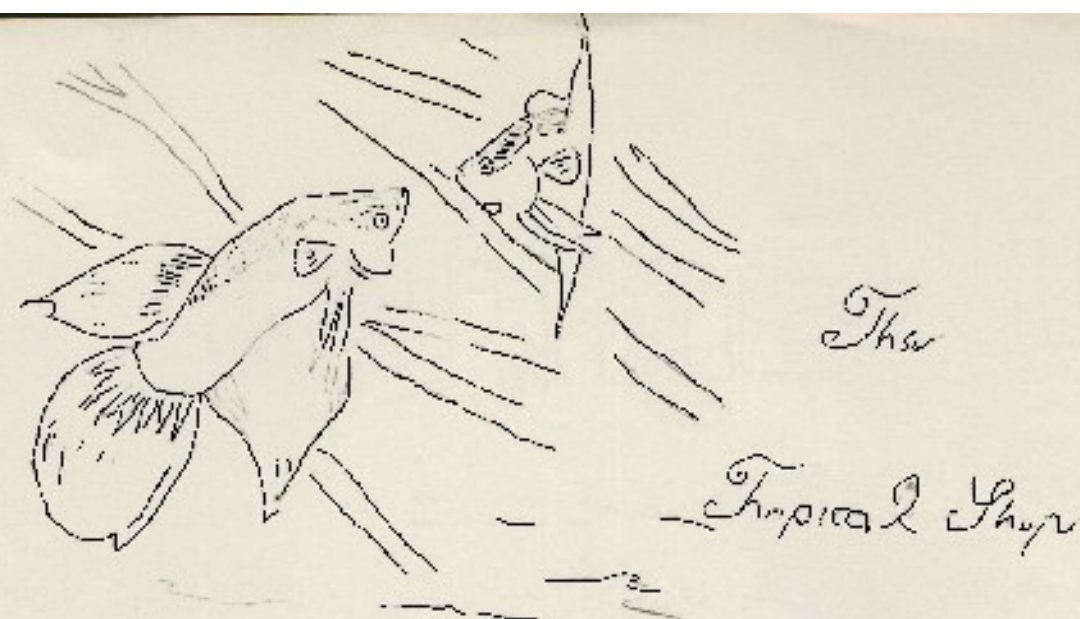
MY EXPERIENCES WITH WORMS

by B.G. Dunn.

Ever since I have been keeping fish (early 1950's) I have always fed them worms, tubifex worms, white worms, grindal worms, micro worms and any other type of worm that fish will eat.

During the time that I was a two tank aquarist I kept white worms in the green house and purchased tubifex from the pet shop. On graduating to a fish-house I obtained a culture of micro-worms from Dave Booth and was able to maintain this line until February 1967. Next on my list was grindal which I obtained from the late Len Willis, he could rear these worms better than most people can breed guppies.

For years I bred worms with no trouble at all but then I decided to try white worms as well. That was where my trouble began. John Mason, our past President said that



TROPICAL FISH - PLANTS - AQUARIA AND ALL EQUIPMENT
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he had an old culture that he no longer required. All I would have to do was to feed it and I would have lots of worms, I fed the culture "Oster" baby milk powder and I saw six worms. I thought that I had better leave them there as the culture did not appear to be very strong. John suggested that I tried feeding them on "I.G.M." white worm..food. Half-a-crown and a fortnight later I was down to two worms. Another club member suggested that the culture might need fresh peat. A month after adding fresh peat I had just one Worm. I gave that to a Blue Gularis and gave up for three months.

I then obtained a fresh culture from our ex-secretary Michael Willis. I fed them milk powder and they bred like guppies - white worms everywhere. Then came the next snag, hundreds of little black flies, and maggots in both the white worms and in my precious grindal culture. Horrible black flies forming a curtain of blackness on the inside of the glass roof of my fish-house, I started throwing out the maggots and replacing the peat with fresh, all to no avail. I then put the white worms in the garden shed this cured the flies and their maggots as it was too cold for them to breed. Unfortunately it was also too cold for the worms, so back into the fish-house they went. Within a week the flies reappeared. Just before Christmas I put four of my grindal worm cultures in the garage and the flies disappeared, so like a fool I put the other three in with them and put the white worms in the shed. Very soon I could not find any flies but on putting the grindal in the fish-house I found that I had killed every last worm. However, the cold did not kill off the flies chrysalis and again I had flies in the fish shed.

I soon obtained a new culture of grindal from John Mason, he maintained they were grindal, well if they were they must have been giants for in no time at all I had another white worm culture,

A month went by and still I didn't have a grindal culture, and my poor little tooth-carps did not appreciate just dry food. So I paid our treasurer Dave a visit to scrounge some, he was busy decorating and had not found time to feed his worms. Being a kind hearted fellow aquarist he dug me out some of a dried out culture and suggested that I take a chance with that. Two weeks latter I was feeding grindal from three cultures again,

So here I was again with three types of worms and of course the flies. Then for no apparent reason my micro died, every last worm had vanished. I tried John again but he had "finished with that sort of thing". The following evening I paid our Thurrock friends a visit, after all they were certain to have some between them. You can imagine my surprise when they asked me how to keep them, I pointed

out that I could not afford to feed my fish just brine shrimp until they were large enough for grindal. nor can they, but then they use pondered dry food and judging by the number of shows that those lads win the fish certainly do not seem to suffer. But they did say " when you get your micro, give us some to try".

I then revisited our treasurer, he knew how to keep micro but did not have any. He also asked that when I did locate a source of supply to let him have a starter culture.

At. the next club meeting I quizzed everyone for the elusive worms , finally I found that Norman Sellers had some and arranged to exchange a grindal culture for some micro.

The night I visited Norman for the purposes of the exchange it started to snow and I left Norman to battle my way back home in a blizzard,

The things I do for worms - I hope the fish appreciate it !!

EYE - SPOT

by R.D. Orford. (Assist'Editor)

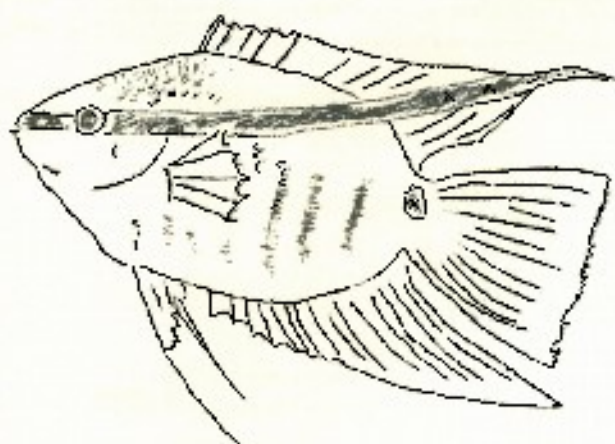
For some time now I have been thinking of writing a regular column for our JOURNAL, now finally our editor has shamed me into getting down to it.

First of all, I would like to say bellow, to all our new members and to remind them that the club is for their benefit. To find out just what goes on I would suggest that you get a copy of the club rules from Ray, our librarian - you might as well borrow a book whilst you are at it'.

The recent club outing to the Brighton Aquarium and Dolphinarium was a great success. On the outward trip we were entertained by one of the lady members who got herself locked, in "guess where?". You got it -the same place the "Three Old Ladies" got locked in.. Fortunately, Dave our President was persuaded to go to the rescue.

The Aquarium was quite good as far as coldwater fishes were concerned, but apart from two or three tropical tanks the rest were poor. The highlight of the afternoon was without a doubt the performing dolphins, it's one thing to see them on TV- but far, far better to see them live'. Another visit next year would be worth while.

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EXCHANGE REVIEWS

by Jackie Norris

The first edition of the Witham A/S magazine features our own Mike Goodall's article "Fish and Photography", together with other useful articles,

Other recent reprints from our JOURNAL are - "How to Measure your Fish and Plants" by Bob Waitings which appears in "**Ragged Tales**" (May 69), and "The Water Hyacinth" by Norman Sellers in the **N.I.A.S. bulletin** (June '69)

White worms are a popular food for our fishes, but if you have any difficulty in keeping a culture successfully then read Frank Buhagiar's "How to Keep White Worms" in the June '69 **Ragged Tales**.

"The Tiger and His Lady" by Chas B. Anderson appears in **Anchor** (June '69) Mr Anderson suggests that after reaching maturity, tiger barbs are best kept in their own individual tank. Apparently these fish require more food than others of similar size to condition them for breeding. Mr Anderson follows on with his observations on the breeding of tigers.

In the July/August issue of **P.F.M** Rudolf Zukal supplies an article, with 'photos, on the Leopard Danio (*Brachydanio frankei*) The fish is not, as earlier presumed, a cross between the zebra and spotted danio but in fact a new species which appeared and was bred in a tank in Prague in 1961.

With the ever increasing popularity of garden pools comes the inevitable question - how about a water-fall? Mr J. Mowat constructed his own because his garden was not large enough to allow the extra space required for one of the ready-made fibre glass water-falls. He decided on a home made cascade, and he outlines his method of construction very well. Get yourself a disused washing-machine pump and you are half-way there. (**Aquarist** July)

How about the poor fellow who got up at half-past one in the morning to start for his holiday in Cornwall and found his angel fish spawning. After he realized that the fish must not come first and that the holiday couldn't be postponed (I presume with a little pressure from his wife) he came home to find no trace of the brood. The experience did, however, give him the determination to succeed with breeding his angels. Read "Angel Antics" by R.C. Mills, **Aquarist** August. Another useful article - "Keeping and the Breeding of the kribensis" in this same issue,

There is a nice piece on "Brackish Water Tropicals" by N.Polunin in the September **P.F.M.**

TABLE SHOW POSITIONS (as of September 16)

D.Edwards.....	31 pts	E.Booth.....	4 pts
R.Wallings.....	21 pts..	R.Bloxham....	4 pts
P.F. Capon.....	23 pts	A. Russel	3 pts
R.D.Orford.....	17 pts	K. Adams	3 pts
D.Little.....	14 pts	R.Scott.....	3 pts
R.Nield.....	10 pts	M.Goodall,.,,	3 pts
S.Norris.....	14 pts	C.Allen.....	2 pts
D. Cheswright.....	9 pts	E. Bloxhan....	2 pts
T.Clark.,.,,	9 pts	E. Russel	2 pts
J. Norris	6 pts	L. Curtis.,,	2 pts
L.Mitchell.....	6 pts	A. Bobbin.....	2 pts
M. Upton.....	6 pts	R. Parker	1 pt
L. Smith	5 pts	P. Smith.	1 pt
K. Ives.....	4 pts	R. Passmore..	3 pts

CLUB NEWS

Meeting July 1

CHARACIN TABLE SHOW

1..R.Nield	headstander	81 points
2...K. Adams.....	cardinal.....	78 points
3...R.D.Orford.....	<i>Leporinus</i>	77½ points
4...R.Nield.....	Black widow.....	77 points
4...A. Russel.....	gold eyed tetra.....	77 points

The raffle was won by:-

1. ,D.Edwards.Air-pump
- 2...Martin Grey.....Bromothymol Blue
- 3...Wally Hadkiss..rock

INTER-CLUB MEETING at Thurrock

CATFISH

- 1...P. Huckley.....Thurrock
- 2...P.O'Brien.....Thurrock
3. .R.Strudwick,.....Thurrock
- 4..P. Harris.,.....East London
- 4..E. Niccol.....Thurrock

LABYRINTHS

- 1...D. Edwards,.....Southend.
- 2...D. Edwards.....Southend.
- 3...P.F. .Capon.....Southend.
- 4...T. Clark.....Southend.

WORDTAILS

- 1...P.D. O'brien.....Thurrock
- 2...G.Green.....East London
- 3...E..Bloxham.....Southend.
- 4.,W. Corby.....East London.
- 4..D. Edwards.....Southend.

The points for the clubs were as follows:-

Thurrock. 14, Southend 13, East London 5.

The position of the clubs is as follows, to dates-

SOUTHEND 43 points, EAST LONDON 34 points, THURROCK 2? points

The entertainment for the evening was a quiz, light hearted but a quiz at that. The results were:-

SOUTHEND 33, THURROCK 30, EAST LONDON 30½.

The judge for the table show, unfortunately failed to turn up so three members from the clubs were elected to fill in.

INTER-CLUB MEETING AT SOUTHEND July 15.

S.L.A.D.A.S. were host to Billericay, Witham and Blackwater clubs for a table show and Quiz.

The quiz- master was C.J. Skilton of Chelmsford. The results were:-

BILLERICAY 28 points
BLACKWATER 23 points
WITHAM 15 points
S.L.A.D.A.S.....14 points

BARBS

- 1...G. Yallop.....Blackwater
- 2..R. Scott.....Southend
- 3»..P.F. Capon.....Southend
- 4.,.R. Hall.....Blackwater

TOOTH-CARPS

- 1...J.Duval.....Blackwater
- 2...D.Edwards.....Southend
- 3...J. Duval.....Blackwater
- 4.. E.Gee.....Blackwater

MALE GUPPY

- 1...S. Norris.....Southend
2. .J. Norris.....Southend
- 3..C..Allen,.....Southend
- 4..P. Holme.....Southend

CHARACINS

- 1...T. Clark.....Southend
- 2...P. Patis.....Billericay
- 3...R.Nield.....Southend
- 4...G.Yallop.....Blackwater

Meeting August 5

Dave Edwards and Don Finch gave us a talk on Aquarium Hygiene, incidentally Don won last years Home Aquarium Competition he really knows how to keep his tanks in tip-top condition !

JUDGING COMPETITION

- 1...Bob Orford.
- 2...D..Little.
- 3...S.Norris.
- 4..A. Chapman

The raffle was won by:-

- 1..Mr Harrington.....pair of gularis
- 2...Mrs Chapman,pair of black neons.
- 3...P.F .Capon.....albino corydoras.

Meeting August 19

Bob Waitings gave us a talk on diseases, with particularreference to Dropsy. Bob had hoped to tell us about how to cure this disease, he had been asking around for any fish with dropsy so that he could try out some cures that he had read about. Naturally, as soon as he asked for suitable fish to try his cures on not one member had a case turn up in any of his tanks. Bob would still like any fishes with this disease so don` t "bounce" them pass them on to Bob,

MINI TANK TABLE SHOW

1. -.....L. Smith
- 2.....M. Goodall
3.M. Upton
- 4..... P. Smith
- 4.....,L. Smith

The judge was Don Finch

COLD WATER TABLE SHOW

- 1...L. Mitchell.....Goldfish
- 2...R.D. Orford..... Perch .
- 3...L. Mitchell.....Goldfish

The judge was Stan Halsey.

The raffle was won by:-

- 1...Reg Parker..... Double filter
- 2...Les Smith.....Dow Corning Sealant.

Meeting September 2 (reported by Bob Orford)

Mr A Evans was the speaker at this meeting, he is, as most of us know the editor of **PetFish Monthly**. The lecture was about the behaviour and breeding of fish. Light, Mr Evans said, is possibly the most important factor in breeding the majority of fish although there are a few exceptions to the rule, the brook trout being one. The reason for light being so important a factor is that in the wild most breeding is done in the spring and summer when the food necessary for the well-being of the fry is in abundance due to the action of light on the plankton.

The meeting ended with questions to Mr Evans; I may be mistaken but it seemed to me that most of the questions were being asked by the longer standing members of the club. Now I can not believe that all the new members know all there is to know - the only way to find out about our hobby is to ask other aquarists about their experiences, books are all very well but they are no substitute for experience.

The winners of the raffle were:-

- 1...D. FinchAqua- Set Up
- 2..M. Upton.....Rubber plant
- 3...B.Edwards....Potted plant,

Thank you, ladies for your efforts in getting the food laid out and to the members who donated food,

Meeting September 2

The main event this evening was an auction which was very well received by one and all.

TABLE SHOW PLANTS

1...D. Edwards.....	twisted vallis.....	76 points
2...R. Wallings.....	C.nevilli.....	70 points
3...P.F.Capon.....	C.becketi.....	66 points
4...R.D. Orford.,....	<i>Hygrophila polysperma</i>	62 points

The judge for this table show was Brian Dunn.

TABLE SHOW A.O.S.

1...D.Little.....	glass catfish.....	80 pts
2..D.Little.....	Mono.....	78 pts
3..T. Clark.....	Redtail shark.....	76 pts
4. R.Wallings.....	Redfin shark.....	75 pts

The judge was your editor - any complaints ? - apart from Bob Orford because his unidentified fish didn't get a place !

The raffle was won by:-

Pair of <i>nigerianum</i>	Arthur Halfhed
Two London Shubunkins....	Dave Cheswright
70 foot of airline.....	Les Smith.

We would like to thank Henry Dunmow for donating all that air-line tubing part of which went for the raffle and part of which was donated to the auction for club funds,

COMMITTEE MEETING REPORTS

Meeting at 64, Fiemming Crescent, Leigh, on 28th July

Present were :- President, Secretary, Treasurer, Jackie Norris, Bob Passmore, Don Finch, Lawrence Mitchell, R.Nield, Peter Capon, Bob Orford, and Ted Bloxham. Appologies from Allan Huxter.

The President opened the meeting by congratulating Mike Goodall on the excellant photographs that appeared in the JOURNAL. The Secretary read a letter from Rosenbergs enquiring whether the Society would like a club tie, it was decided to put the matter to the floor. R. Nield asked permission for E. Booth and himself to enter a furnished tank in the club's name at the Harlow A/S open show. Peter Capon suggested that S.L.A.D.A.S. enter a tableaux in the **PetFish** Show.

Don Finch requested that juniors be able to buy their raffle tickets at half price, up to six for a shilling.

R. Nield proposed that there should be an Open show in 1970. R.Passmore seconded the motion, which was carried unanimously. Provisionally to be fixed as 16th May.

Meeting held at 36, Grafton Road, Canvey Island, on August 15.

Present were :- President, Treasurer, Jackie Norris, Don Finch, Lawrence Mitchell, Ray Nield, Maurice Upton, apologies from Ted Bloxham and Peter Capon.

President proposed a vote of thanks to Bob Passmore, retiring Show Secretary and Vice-President and suggested a letter of thanks be sent to him for all his past work for the Society.

R.Nield enquired as to whether Alan Huxter, present librarian, was still holding the position, owing to his absence. M. Upton, present show secretary, was nominated table show secretary for the remainder of the year. The post of Vice-President is to be held open until the A.G.M.

FORTHCOMING EVENTS

SOCIAL.....Tarpots Saturday 13 December 1969

DINER AND DANCE Air-Port Restaurant November 15 1969

PetFish Monthly show 29th October - 2nd November S.L.A.D.A.S. has a tableaux come and see it - at Royal Horticultural Society Old Hall, London, S.W.I.

NOTES AND EVENTS

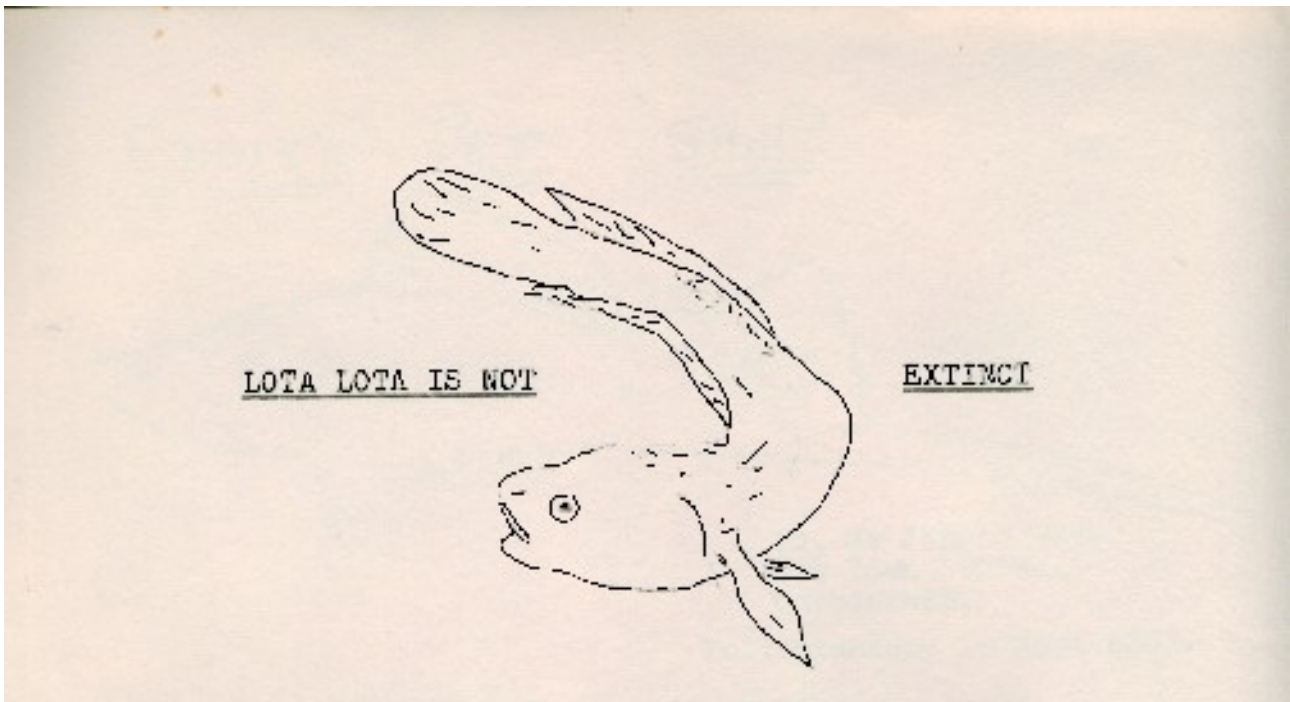
We are glad to report that Bob Wallings son that was involved in a road accident is now home and as Bob says "fighting with his brother again".

Congratulations to Mr and Mrs R. Nield on the birth of a daughter.

Commiserations to Dave Edwards on the loss of his Oscar - it jumped out !!

PAUL HAHNEL

It is with regret that we have to report the death of Paul Hahnel, He was responsible for many of the varieties. of fancy guppies that now grace our tanks and a regular contributor to Tropical Fish Hobbyist.



by P. F. Capon

John Dean of Cambridge recently caught an unusual fish in the Old West River near Adreth, Cambridgeshire - it was a Burbot. John's fish was fifteen inches long and weighed one pound.

The Burbot (*Lota lota*) was thought to have become extinct in the British Isles many years ago, Cambridge University Zoology Department had to search through records as far back as 1894 before they were able to identify the fish. The burbot has not been caught for at least twenty years in our rivers and many experts believed to be extinct.

The Burbot is the only known freshwater member of the cod family. The British Ichthyological Society has recently received a grant from the World Wild Life Fund to study and trace this highly rare fish.

BETTER THAN FLUORIDE

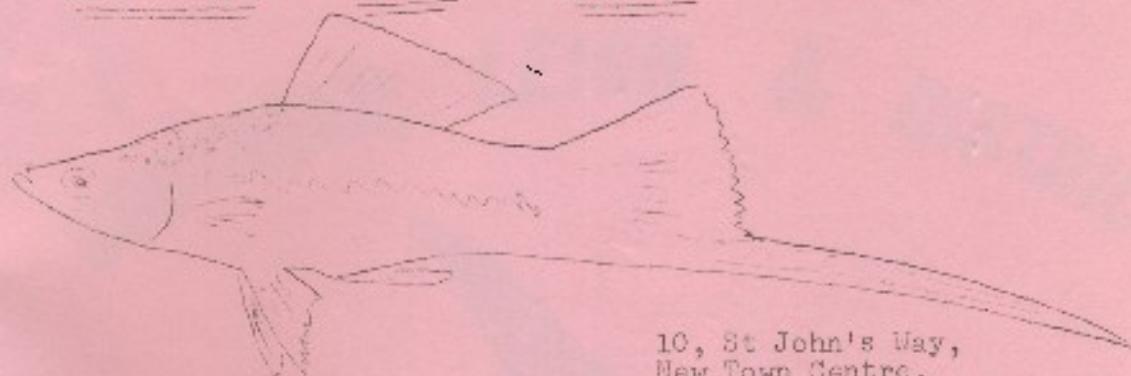
A Warwickshire parsons wife is reported to have commented on *Assehus* (freshwater shrimps) of up to $\frac{1}{3}$ of an inch long,

"Fluoride may be all very well but for nutrition value give me good solid protein every time !" The shrimps came out of the taps: _____.

DON'T FORGET

NOVEMBER the 18th is our ANNUAL GENERAL MEETING the day you get a chance to have a real say in your Society. Do come along and vote for your club officers. What you say on that night decides how the club is to be run in 1970 !!

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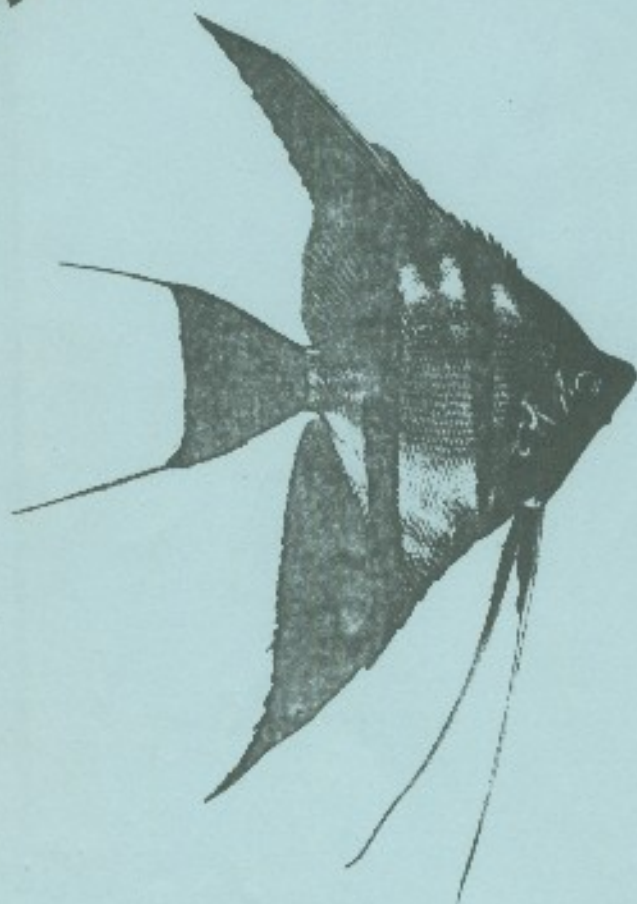
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**BI-MONTHLY JOURNAL Number 29
DECEMBER 1969**

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THIS JOURNAL IS TWENTY-TWO IN APRIL

OFFICERS FOR 1970

PRESIDENT

D. Edwards ,
36, Grafton Road,
Canvey Island,
Essex.
Telephone Canvey 3164.

VICE-PRESIDENT

R. Passmore
39, Grafton Road
Canvey Island
Essex

HON: SECRETARY

J. Norris
58, Leigh Cliff Road
Leigh-On-Sea
Essex.

HON:TREASURER

D.M. Cheswright
2 Cedar Avenue
Wickford
Essex
Telephone Wickford 2531

JOURNAL EDITOR

P.F. Capon
9, Locarno Avenue
Runwell
Wickford
Essex

ASSISTANT EDITOR

R. D. Orford
8, Blenheim Chase
Leigh-On-Sea
Essex post code SS9 3DA
telephone Southend 74542

PUBLIC RELATIONS OFFICER

D. Finch
165, Bull Lane
Rayleigh
Essex

LIBRARIAN

R. Nield

REFRESHMENT SECRETARY: E. Bloxham & R. Bloxham

TABLE SHOW SECRETAY: D. Finch

COMMITTEE MEMBER S. Norris

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OPEN SHOW SECRETARY:

NOTICES

EDITORS OF CLUB MAGAZINES; PERISSION IS GIVEN TO REPRINT
S.L.A.D.AS. ARTICLES. A COPY OF THE MAGAZINE FOR THE AUTHOUR
WOULD BE APPRECIATED.

EXCHANGE MAGAZINES TO BE SENT TO THE EDITOR.

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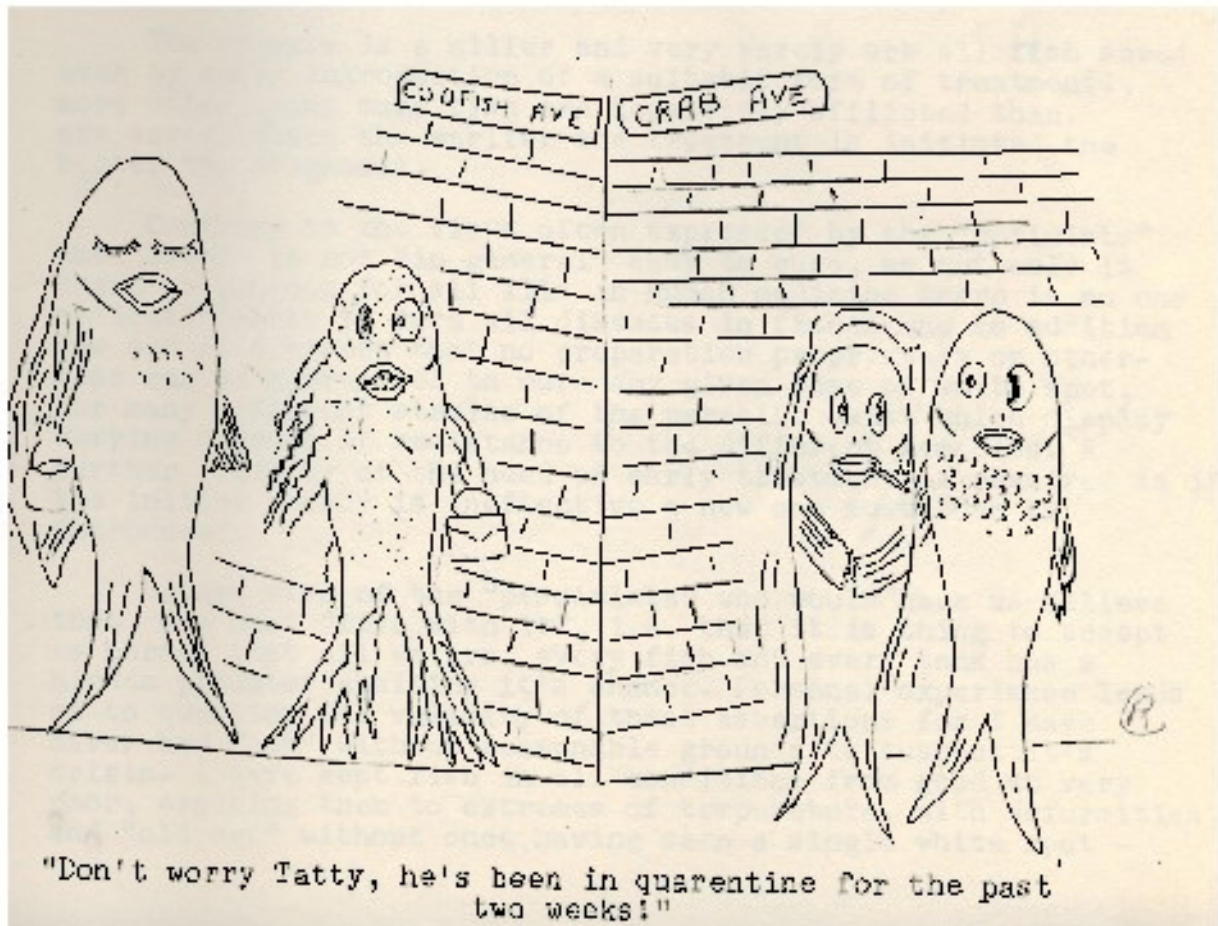
EDITORIAL

Another S.L.A.D. A..S. year has ended, probably one of our most successful since the club was founded. Our finances are healthy and more important all the membership is as keen as mustard.

Last years show was a great success but let's not rest on our laurels we have got another Open Show coming up - 16th May 1970 at our usual meeting place. Let's make this show even better than last years.

The whole purpose of our club is to inform as many people of the advantages of aquarium keeping - keep bringing your friends along to our meetings, let's see if we can't raise our membership even more this year. There must be at least a hundred people interested in fish in our area for every one in the club.

Don't forget that the club is your club any ideas for meetings, outings or what-ever should be given to any committee member or popped into the suggestion box.



Ichthyophthirius multifiliis FOUQUET 1876

or

WHITE SPOT

by N.H. Sellers

Following my previous contribution on the subject of "White Spot" (October 1969) .. to which I would refer any reader who wishes to know something of the life-cycle of the parasite, the problems it poses and the means of prevention. I felt that I could not leave the subject -without mentioning the means of combating it in the light of present day knowledge , incomplete as it certainly is , once we are faced with it's entry into our aquaria,

It is, perhaps, worthwhile mentioning one or two points which could be helpful if treatment is to be carried out in as efficient a manner as possible in any given set of circumstances. Most important of all is ones powers of observation, the ability to discern abnormal changes in our fishes appearance and behaviour, for quite often one can be aware that something is wrong before the white tell-tale spots occur, e.g. lethargy, lack. of interest in food, loss of colour, rubbing of the body against plants and stones as if endeavouring to remove a source of irritation.

The disease is a killer and very rarely are all fish saved even by early introduction of a suitable form of treatment., more often many more fish are hopelessly afflicted than are saved. Hence the earlier the treatment is initiated the better the prognosis.

Contrary to the views often expressed by the "optimists" the disease is not "in general" easy to cure, as not only is there no panacea for all ills in human medicine there is. no one medication able to cure all diseases in fishes and in addition one can also assert that no preparation proprietary or otherwise can be guaranteed to cure any given case of white spot, for many different strains of the parasite exist which display varying degrees of resistance to the different remedies. A further reminder of the need of early treatment is required as if the initial remedy is ineffective a new one must then be introduced..

Beware also of the "pessimists" who would have us believe that one must "live with it", I.e. that it is the thing to accept as normal that all waters, every fish and every tank has a hidden predator awaiting it's chance. Personal experience leads me to question the validity of these assertions for I have never had "ich" without reasonable grounds to suspect it's origin. I have kept fish in all conditions from good, to very poor, exposing them to extremes of temperature, with deformities, and "old age" without once having seen a single white spot .

- though how many times have we hear that "chilling" can cause the disease? I am a firm believer that disease is introduced into a clean tank and not there already in a latent form.

The parasites bore into the region between the two skin layers -the epidermis (outer skin) and the dermis (deeper skin layer) and hence cannot be reached by any medication apart from antibiotics (such as Terramycin or Penicillin) which are known to enter a fishes circulatory system. With most methods used by aquarists the parasite does not become susceptible to the medicant until it leaves it's host, i.e. in it's free swimming stages.

Prevention is better than cure and I feel that it is impossible to keep tropical fish without a quarantine tank for "new arrivals" even if one is a "one tank man", for this is the only possible way to avoid a catastrophe by 'the introduction of infection on fish and plants. ^A quarantine tank is one in which all new plants and fish are placed for 3 to 4 weeks to ensure their freedom from infection before being placed in a community tank or other existing "clean" set-up. Separate utensils - for use in the quarantine tank only - are necessary together with routine washing of the hands when moving on to a clean tank. I personally quarantine all fish and plants, and "clean" tubifex for two days before giving it to my fish. I never use pond water for infusoria- Most medicants used in the treatment of "ich" are detrimental to plant growth so it is always worthwhile considering the removal of all plants of value to an "empty" tank for several weeks during which time the organisms present will die due to the lack of a host and the plants can then safely be used.

A rise of temperature will not by itself kill or stop the development of the parasites, but in accelerating the life cycle speeds the effective contact with the medicant dissolved in the aquarium water. Unfortunately some fishes are susceptible to rises in temperature above 80°F and treatment must of necessity be prolonged at lower temperatures for these, another effect produced by increasing the temperature is a lowering of the oxygen level within the water which can be remedied by the use of an aerator. 82 to 84°F is a reasonably average temperature for treatment.

As filters tend to reduce the efficacy of many medicants they should be switched off or removed.

Some remedies have a fixed therapeutic dosage which if exceeded may kill the fish and if administered in a lower dosage than specified is ineffective.

It is not desirable to mix treatments as one drug may

counteract another or produce a toxic product in combination. As only vague or perhaps no details are given as to the effective constituents of proprietary cures one may be giving a double dose of an identical preparation.

Fish debilitated by the disease and exposed to low temperatures may develop fungus as a complication..

Salt is ineffective as a form of treatment. Although one club member, some years ago, advocated it's use, ½ a block to a three foot tank. I personally found it useless even in conjunction with a rise in temperature. As marines also suffer from the ravages of this parasite it is difficult to see how salt can be effective.

There is no point whatsoever in removing an obviously infected fish to a separate tank - the whole set-up is "loaded" invisible to the naked eye though it may be. Equipment contaminated by contact with an infected tank may be sterilized by immersion in boiling water, e.g. nets, scraper, rocks, gravel, but not the thermometer.

A rapid "churning" movement of the water produced by aeration and a filter pump strange as it may seem is a ridiculously simple and unique but surprisingly effective method available for the treatment of large fish which can withstand the violent water circulation. The theory is that the "swarmers" (the free swimming parasites) looking for a host have insufficient time in which to obtain a grip on their prey before being rapidly snatched away by the current. This method is of course unsuited to small tropical fishes.

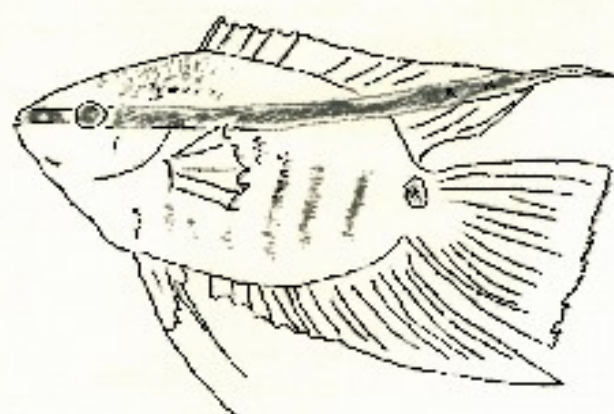
Aeration assists in dispersing medicants which should be administered as directed normally by prior dissolving in water and adding the resulting solution slowly to the tank.

Suggested Medicaments

Trypaflavine 1.0 grm in 100 litres of water at 30°C (85°F) for two weeks then gradual replacement of water with fresh over a further week. This method of treatment is rather slower than some, less toxic and less damaging to plants but it discolours the water and gravel to a yellow-green, the water however tends to clear automatically after fourteen days. Useful for early stages.

Quinine 1.0 grm of quinine hydrochloride in 100 litres of water. As some fishes are sensitive to sudden exposure to solutions of this preparation, it must first be dissolved in a jar of water and slowly dripped into the tank. It's effectiveness rapidly wanes and the dose must be repeated after fourteen days if the parasites persist. It is said to have the lowest mortality rate but it kills plants and some believe it

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reduces fertility in the fishes.

Methylene Blue Three cubic centimeters of 1% solution to 10 litres of water. - popular cure but not always effective, and blue colour renders fish almost invisible. Tends to kill plant life.

Terramycin 250 milligrams in 110 litres of water at 30°C. If parasites are sensitive fish are "clear" in 72 hours -rapid cure. Expensive antibiotic only available on veterinary prescription, again not effective in all cases.

(NOTE at lower temperatures the treatment period will usually be somewhat longer in all cases.)

WHITE SPOT LAMENT

by Gleepy-Olis
reprint "Fishy News" Plymouth A/S

This is the fishy bloke all forlorn,
Who saw on a fish one early morn,
A spot so white and Oh ! so small,
And it wasn't long till it covered them all.

This is the chap who fussed and blew,
Who brought up the temperature through and through
He raised it higher, then higher and higher,
Till I'm sure- his fish thought they were on fire.

This is the aquarist who looked once more,
To his wife he did call with a voice quite a roar
Not a spot can I see, I'm sure it's all gone,
I'm happy as can be, I could burst into song,

On the following day alas and alack,
The parasite white spot had found it's way back,
His fish looked quite sick and had started to shake
Thought he, a trip to the chemists I'll take.

This is the chemist who smiled with glee,
Some Quinine hydrochloride I'll sell him thought he
Four grains to the gallon and bang in the lot,
Make sure that you keep the water quite hot.

This is the tank that clouded like mad,
Our aquarist friend started feeling so sad
Said. he to his wife, I feel that I oughter,
Siphon half of this polluted water.

p.t.o.

Now clear and settled, as bright as can be,
His tank looks quite posh for his friends all to see,
Once more has he learnt, no more will he groan,
He'll keep all new fish for a time on their own.

BIOLOGICAL FACTS OF LIFE

by D.W. Roberts. F.Z.S.

The number of different kinds of animals is so enormous that it is quite impossible to study them without arranging them in an orderly classification according to degree of likeness.

No two individual animals are wholly alike. The offspring of any parent are always unlike it and unlike one another. Even so-called "identical twins" which deserve that name at their birth become to some degree different by the different action of their surroundings upon them as they grow up.

Heredity, in fact, does not produce absolute resemblance, but is qualified by what, using the term in the widest sense, we may call variation, whether it be due to an. unlikeness of the offspring at birth or acquired by the impress of the surroundings during their life time. In using the word "variation", I should perhaps explain that the word "varieties" is applied to animals representing sub-species, and is often wrongly used in refering to those which are only variations.

A. population of animals of a definite species and which exhibits as a group fairly uniform characters distinguishing it from the remainder of the genus, and which breeds true to these characters, is called a "variety".

A variety is essentially an incipient species and usually has a fairly definite geographical distribution. When an animal or group of animals shows a deviation in colour pattern, structure or function from others of the same genus and species, but does not breed true in nature, it is called a variation or sometimes a variant. "Breeds" is perhaps the best term for aquarium forms developed by artificial selection. We have, for example, the many breeds (or variations) but NO varieties of fancy goldfish, which, if left to themselves, revert to the form and colour of their wild ancestors. The same illustration may be applied to the various breeds of Platys, Fighting Fishes, Guppies and others.

However, the likeness between the offspring of any parent is, on the average, greater than their likeness to individuals descended from other parents, and in this fact we find the first degree of resemblance between animals. For practical purposes, .however, the resemblance between members of a family

(in the ordinary sense of the word) is useless in classification, on account of the vast number of small divisions it gives and the impossibility of identifying them.

A more normal practical basis is found in the fact that animals that are closely alike will breed together and give fertile offspring, whereas those that are- less alike will not. Thus the offspring of two horses is fertile, but that of a horse and an ass is not, while breeding between horses and oxen is impossible.

The primary groups of Zoological classification consist of individuals which will breed together to give fertile offspring, or of which it is concluded from their likeness that they could do so. Such a group is known as a SPECIES.

It is believed, that all the members of a species are united by blood kinship, that is to say, that they are all in the long run descendants of one pair or several related pairs of parents, so that their relationship is only an extension of that which exists between offspring of the same parents.

Thus the resemblance between the members of a species depends on two things; 1) their community of descent, 2) their inability to weaken their likeness by inter-breeding with unlike kinds of animals, and thus acquiring new features.

At the same time it must not be overlooked that upon the average, two members of a species differ in more respects than two children of one parent.

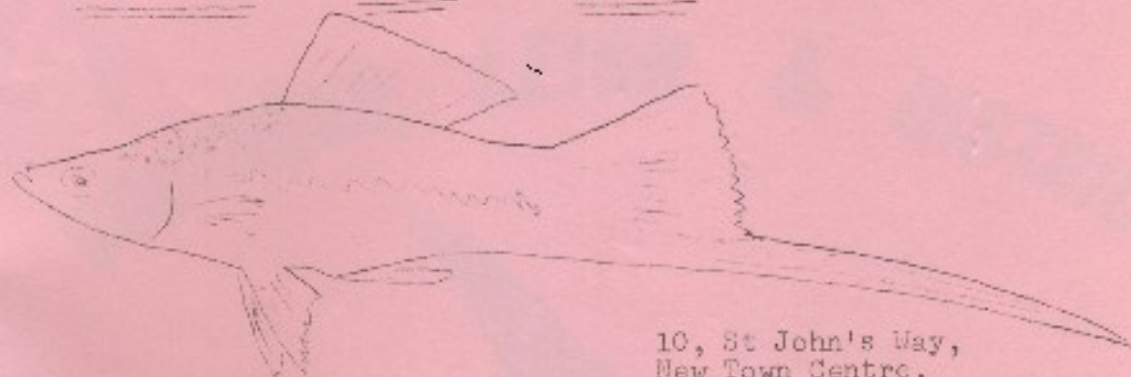
Species are grouped together by Zoologists into divisions of higher grade known as GENERA. A genera (and hence the term genus) consists of several species which resemble one another very closely, but its limits are determined by convenience only, and are not natural, like those of a species.

EDITORS NOTE D.W. Roberts point about genera being mainly for convenience makes one wonder why Messrs Klee and Axelrod have been carrying on their argument as to the validity of the genus *Barbus* as opposed to *Capoeta*, *Puntius* and *Barbodes*. If I chop the barbels off my Checker barbs do I call them *Puntius oligolepis* rather than *Capoeta oligolepis*.

Since there appears to be confusion over the naming of the BARBS for the time being this JOURNAL will retain the generic name BARBUS.

Readers wishing to follow the argument for and against a change of name for the barbs will find Al Klee's argument set out in the "AQUARIST" February 1969, and Axelrod and Schultz's in the **AQUARIST** October 1969.

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CLUB NEWS

Before launching into the reports on past meetings we usually look back: to the last JOURNAL to confirm where we left off last time - well, surprise, surprise did you know we had TWO meetings on September the second. At least that's what the last issue would have us believe I

Meeting October 7

This evening our two Daves, Messrs Cheswright and Edwards talked on coldwater management. Dave Edwards mentioned. One word of warning concerning lilies, he said that it could be dangerous to try and uproot a water lily by grabbing hold of it and pulling. He tried it and the lily pulled hardest--at this time of the year pond water can be rather cold,

The raffle was won by :-

- 1...Mr Rodgers..... pair *Rasbora kalachroma*
- 2...Peter Treadwell. set of nets.

We are very sorry to hear that Mr Rodgers lost the *kalachroma* soon after he got them home.

Meeting October 21

Dave Cheswright demonstrated how to set up a furnished tank complete with spilled water. I reckon that fellow enjoys playing with water he even manage; to pour the water into his packet of cigarettes. Dave also gave a commentary on the slides of furnished aquaria after his hard labour in setting up the tank in front of everybody.

The raffle was won by:-

- 1...Bob Scott.....Siamese fighter
- 2...Mrs Parker.....box of mushrooms
- 3...Malcolm Upton... Cork Bark
- 4.. Nobby Clark..... Rock
- 5...K.Russel ...Cacti garden
- 6..Ken Adams.....Fancy Guppies.
- 7 .Dave Cheswright. .Rocks,

HOME FURNISHED AQUARIUM COMPETITION

The results of the Home Furnished Aquarium Competition were announced:-

- 1...Malcolm Upton
2. .A.Russell
- 3...Don Finch
- 4..Bob Wallings

The judges were Lawrence Mitchell, Ray Nield, and Dave Edwards, there were 11 entries

INTER-CLUB MEETING AT THURROCK October 6

The entertainment this evening was supplied by Cyril Brown of the B.K.A. who gave a most informative talk on Killies

The results of the table show were:-

MOLLIES

1...Miss. L Sutton.....	Thurrock
2...S. Hendle.....	Thurrock
3. .B. Wallings.	Southend.
4.,M. Upton.....	Southend

COLD WATER

1...P. Group.....	Thurrock
2.. T. Clark.....	Southend'.
3...R. Strulwick.....	Thurrock
4...T. Clark.,,,,,,.....	Southend

CHARACINS

1...J. Boss,.....	East London
2...D.Edwards.....	Southend
3...T. Clark.....	Southend
4...D.Edwards	Southend

A.O.V.

1...L.Sutton.....	Thurrock
2.. D. Durrent ..	Thurrock
3...G.Eaton,.....	Thurrock
4...T. Clark.....	Southend

The best fish in the show was owned. by J. Boss

The points gained by the clubs this evening were:-

Thurrock 22, Southend- 17, East London 4.

This gave the final totals as SOUTHEND 60. THURROCK. 47, and EAST LONDON 38. The Gavel and Block trophy will therefore remain in S.L.A.D.A.S. care for the next year.

WELL DONE S.L.A.D.A.S.

Meeting November 4

The talk on breeding was given jointly by Bob Waitings and your editor.

TABLE SHOWS

BREEDERS EGGLAYERS

- 1.. D..Edwards.....Jan 69
- 2...D. Cheswright....May 69
- 3...T. Clark,.....Aug 69
- 4...D. Cheswright..-.....March 69

BREEDERS LIVEBEARERS

- 1.. W.HadkissJuly 69
- 2...D. Cheswright.....April 69
- 3...D. Cheswright.....March 69
- 4...M. Upton.....Feb 69

FRY REARING

1. .D. .Little
- 2...D. Finch
- 3.. A. Russel
- 4...M. Upton

Ed Nicoll from Thurrock judged. the two breeders shows whilst Bob Passmore judged the fry rearing competition,nice to sec you back Bob !

The raffle was won by;-

- 1.. Dave Donaldson.....plants
- 2...A1f Grice.....plants
- 3.. Mrs Arnold..... plants
- 4...Barry Bridge.....brine shrimp eggs and salts
- 5...Henry Dunmow.....Philips food & plants
- 6...Ken Nichols.....breeding net

INTER-CLUB MEETING AT WITHAM QUIZ

The quiz master was C.J. Skilton of Chelmsford, who obviously put a great deal of effort into compiling the questions. The results for this the second leg of the annual competition were:-

Blackwater 20, Billericay 17, S.L.A.D.A.S. 17 and Witham 14.

The Annual Trophy, a shield, was presented to Billericay

TABLE SHOW

BARBS

- 1...Mr Holt.....Billericay
- 2...Mr Murphy.....Billericay
- 3...Mr Capon.....Southend

LABYRINTHS

- 1...R. Wallings.....Southend
- 2...T. Clark.....Southend
- 3...Mr Bird.....Billericay

WORDTAILS

- 1...S. Norris.....Southend
2. Mr GeeBlackwater
- 3...Mr Warren....Blackwater

DANIO. RABORAS, WHITE CLOUDS

- 1...Mr Murphy.....Billericay
- 2..A.Chapman.....Southend
3. G.Yallop.....Blackwater.

A point that perhaps should be mentioned here is that by some slip we have had two tableshows for BARBS In this series this year.

In case anyone should -wish to organise a lynching party the team for the quiz consisted of Dave Edwards , Dave Cheswright, Bob Wallings, Bob Orford..Alan Chapman, and Peter Capon.

FORTHCOMING EVENTS

SOCIAL Tarpots Saturday 13 December 1969

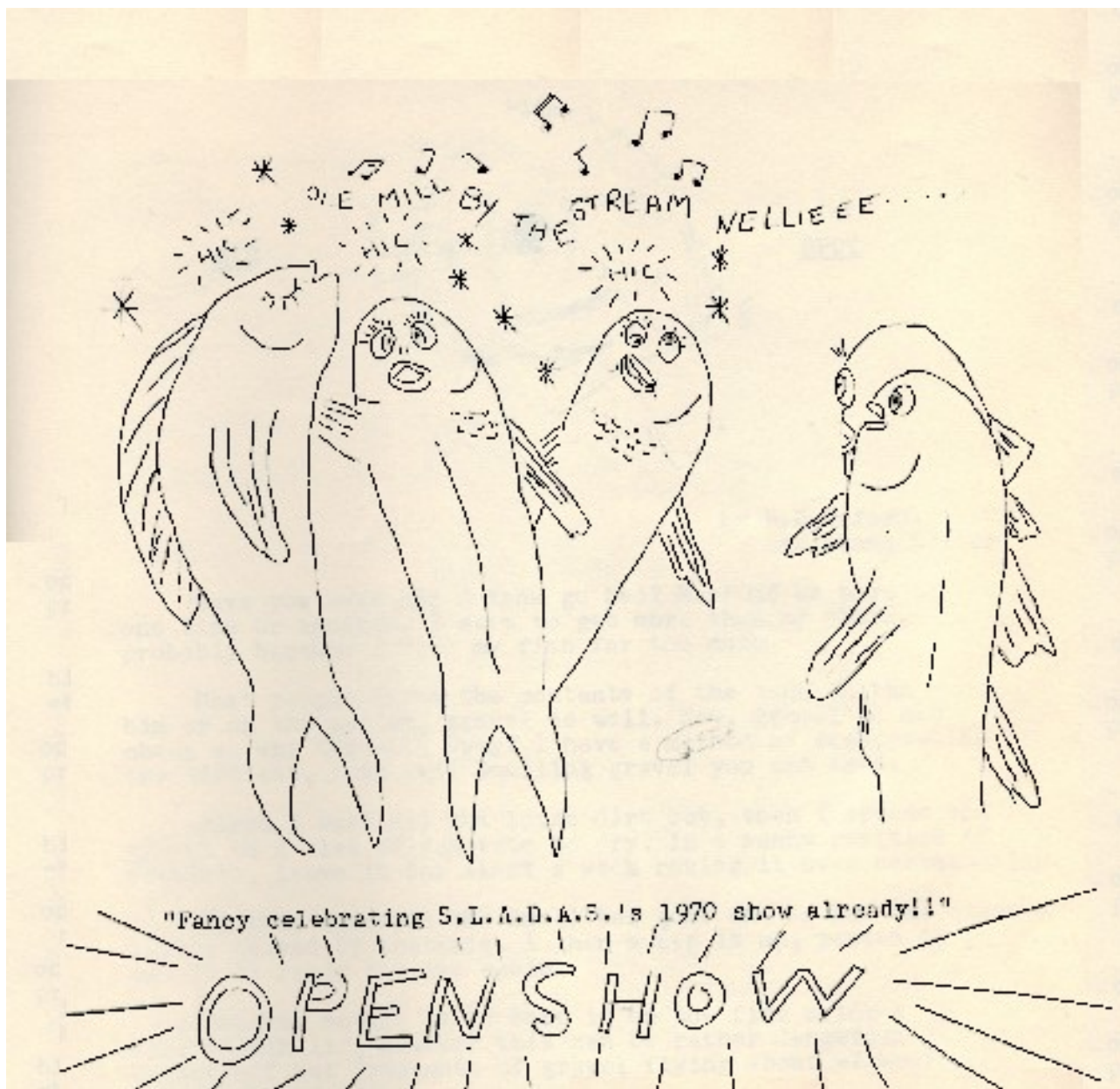
INTER-CLUB QUIZ first round at Billericay provisionally 2nd. or 4th Tuesday in April 1970

TROPICALS NATURALIZED IN BIRMINGHAM

contributed by Bob Wallings

An unknown aquarist tipped the contents of his unwanted aquarium into the canal that receives the hot water effluent from a Birmingham Glass Works, It is reported that the fish are surviving and breeding in this artificially heated water.

EDITORS NOTE Please S.L.A.D.A.S. don't follow suit, similar action has led to legislation against amateur aquarists in the US



To be held at;-

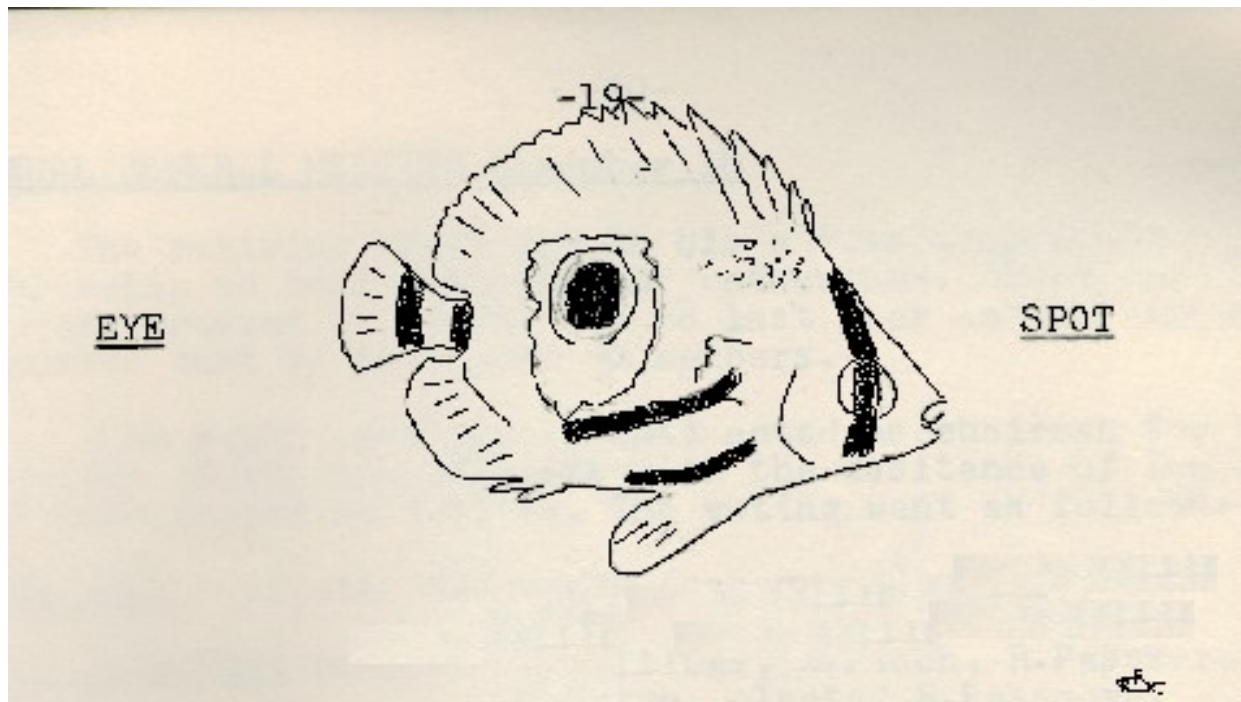
St Andrews Hall, Electric Avenue, Westcliff-On-Sea

on Saturday May 16 1970

All enquiries to the Show Secretary;-

Malcolm Upton,
12, Merrivale,
Benfleet,
Essex.

Phone South Benfleet 28141.



by R.D.Orford. assistant Editor

Have you ever had a tank go bad? Most of us have at one time or another. I seem to get more than my share, probably because I feed my fish far too much.

Most people throw the contents of the tank in the bin or on the garden, gravel as well. Now, gravel is not cheap so why throw it away? I have a method of regenerating the dirtiest, most evil smelling gravel you can have.

First I wash all the loose dirt out, then I spread the gravel on a slab of concrete to dry, in a sunny position if possible, leave it for about a week raking it over occasionally.

By this time all the smell has gone and so has the black colour caused by bacteria. I then sweep it up, rewash it and it is ready for use again.

Another method is to bake it on the fire using a biscuit-tin lid, however this can be rather dangerous because of hot fragments of gravel flying about -I would not recommend it !!!

If you do wish to try the heat method1 please do wear eye protection.

EXCHANGE REVIEWS

Jackie Norris has asked to be relieved of the task of reviewing the exchange magazines. Ray Nield has offered to step in the breach and will be telling us all of any interesting articles that we should not miss. Ray will take up this chore in our next issue.

A number of clubs in the States have ceased to send their mags, why we can't say but S.L.A.D.A..S. policy is to exchange not to donate free issues.

ANNUAL GENERAL MEETING November 18

The retiring President in his address congratulated the membership on their efforts and enthusiasm. There were 69 members present as opposed to 30 last year and our treasurer reported that we have over 90 members.

John Mason (past president) acted as chairman for the election of the new officers with the assistance of Tom King and John Cooper as tellers. The voting went as follows:-

PRESIDENT elected D. Edwards (unopposed)

VICE-PRESIDENT proposed R.Wallings, D.Finch, R.Passmore, M.Upton. elected R.Passmore.

SECRETARY proposed R.Wallings, J.Norris. elected J. Norris

TREASURED elected D.M.Cheswright (unopposed)

JOURNAL EDITOR elected P.F. Capon (unopposed)

ASSISTANT EFITOR elected R.D. Orford (unopposed)

LIBRARIAN elected R. Nield (unopposed)

PUBLIC RELATIONS OFFICER proposed D.Finch, R.Wallings L.Mitchell elected R. Wallings

TABLE SHOW SECRETARY proposed M.Upton, D. Finch, T. Clark L. Mitchell elected D. Finch

REFRESHMENT SECRETARY proposed R.Bloxham, E.Bloxham elected jointly K.&E Bloxham

ASSISTANT LIBRARIAN elected L. Mitchell (unopposed:)

COMMITTEE MEMBER proposed S.Norris, Mr Rodgers, M.Upton, elected S. Norris

On the election of Ray and Ted Bloxham as joint refreshments secretary John Mason refered to them as the "heavenly twins"

The raffle a monster hamper of Christmas fare was won by John Mason (reward for a job well done). With second prize a bottle of home made wine (donate by annon) going to Henry Dunmow- what's the matter Henry you left it behind !

Committee Meeting 28th October held at 93, Salisbury Road, Westcliff, present were;-President, Secretary, Mrs Norris, Bob Orford, Peter Capon, Laurence Mitchell, Don Finch, Ray Nield, Malcolm Upton. .appologies from the treasurer who was attending the club's stand at the **PetFish Monthly** show in London.

M. Upton, Open Show Secretary, in formed the committee that there had beenno reply from the F.B.A.S. concerning the Coldwater Award that failed to materialize at the 1969 Open Show. The Secretary was requested to take up the matter with the F.B.A.S.

Secretary stated that Messrs Rosenbergs .were making up a sample club tie in blue.

Show secretary confirmed that four tenders were being sought for plaques for the firsts in the table shows. It was decided that each successive committee should review the position of plaques with due regard to the clubs finances.

D. Finch, for the treasurer, reported that the price of the tank and set-up for the donation to the old Peoples' Home at Nayland House would be approximately £17 the following committee members offered to donate items to reduce the cost;- R.D.Orford - a stand, L.Mitchell a hood and fittings heater and thermostat, R.Nield the light bulbs, R.Wallings the three foot tank. It was decided to ask for a volunteer from the floor to assist with the cleaning, painting and general preparation of these items. (subsequently Mr Parker offerd his services),

Meeting November 18 continued from page 20

MEMBERS BEST FISH TABLE SHOW

- 1...T.Clark..... red eye tetra.
- 2.. .D.Edwards ,...combtail
- 3...K.Beaumont...Jack Dempsey
- 4..B. Wallings ,.... .Dwarf Gourami
- 4... K. Adams Oscar.

The judge was Ed Nicoll from Thurrock.

TABLE SHOW POSITIONS

- 1...D. Edwards.....42 points
- 2.. ,R. Wallings....29 points
- 3...T. Clark.....,.....24 points
- 4.. P, F. Capon.21 points

A full list of the points will be included in our next issue.

THE COMMITTEE OF S.L.A.D.A.S. WISHES ALL OUR READERS ,, HAPPY CHRISTMAS .
AND VERY MANY S PAWN INGS IN THE NEW YE.AR.